

C.3

LAMS-2895

CIC-14 REPORT COLLECTION  
REPRODUCTION  
COPY

LOS ALAMOS SCIENTIFIC LABORATORY  
OF THE UNIVERSITY OF CALIFORNIA ○ LOS ALAMOS NEW MEXICO

---

SELECTED BIBLIOGRAPHY OF PUBLICATIONS  
OF LASL RESEARCH

1957-1962

LOS ALAMOS NATIONAL LABORATORY



3 9338 00371 2295

## LEGAL NOTICE

This report was prepared as an account of Government sponsored work. Neither the United States, nor the Commission, nor any person acting on behalf of the Commission:

A. Makes any warranty or representation, expressed or implied, with respect to the accuracy, completeness, or usefulness of the information contained in this report, or that the use of any information, apparatus, method, or process disclosed in this report may not infringe privately owned rights; or

B. Assumes any liabilities with respect to the use of, or for damages resulting from the use of any information, apparatus, method, or process disclosed in this report.

As used in the above, "person acting on behalf of the Commission" includes any employee or contractor of the Commission, or employee of such contractor, to the extent that such employee or contractor of the Commission, or employee of such contractor prepares, disseminates, or provides access to, any information pursuant to his employment or contract with the Commission, or his employment with such contractor.

Printed in USA. Price \$ 4.50. Available from the  
Office of Technical Services  
U. S. Department of Commerce  
Washington 25, D. C.

LAMS-2895  
UC-2, GENERAL, MISCELLANEOUS,  
AND PROGRESS REPORTS  
TID-4500 (20th Ed.)

**LOS ALAMOS SCIENTIFIC LABORATORY**  
**OF THE UNIVERSITY OF CALIFORNIA LOS ALAMOS NEW MEXICO**

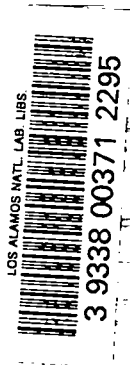
REPORT WRITTEN: April 17, 1963

REPORT DISTRIBUTED: June 13, 1963

SELECTED BIBLIOGRAPHY OF PUBLICATIONS  
OF LASL RESEARCH  
1957-1962

by

Barbara Hendry and Marjorie Johnson



Contract W-7405-ENG. 36 with the U. S. Atomic Energy Commission

This list of references has been prepared in response to a specific request and is confined to the limits of that request. It does not claim to be either an exhaustive or critical compilation and has not been edited, reviewed, or verified for accuracy. The inclusion of a particular reference to material is in no way to be construed as an endorsement of the information contained in that material.



## TABLE OF CONTENTS

	Page
Introduction .....	v
<b>Publications:</b>	
1957 - Articles .....	1
- Abstracts .....	26
1958 - Articles .....	32
- Abstracts .....	69
1959 - Articles .....	78
- Abstracts .....	106
1960 - Articles .....	116
- Abstracts .....	152
1961 - Articles .....	160
- Abstracts .....	196
1962 - Articles .....	203
- Abstracts .....	241
Addendum .....	250
Author Index .....	271
Numerical Index .....	314
Appendix .....	359



## INTRODUCTION

This bibliography attempts to list all publications other than LA and LAMS reports that appeared during the years 1957-62 and that covered work done at the Los Alamos Scientific Laboratory. To do this it includes journal articles, portions of books, symposia and proceedings. It also includes papers in symposia and proceedings that were issued solely as unclassified and declassified reports, and at least one unclassified paper that has appeared only in a classified report. Papers published by LASL staff members during 1957-62 that cover work done elsewhere have been excluded.

The bibliography has been compiled from information drawn from many sources. Prior to 1962 no attempt was made by the Libraries to keep track of the publications of LASL staff members, and no comprehensive lists existed elsewhere in the Laboratory. The primary sources were the Report Library catalog of reprints and the D-6 records of papers cleared for publication. Actual publication of the cleared papers was tracked down through the indexes of the journals to which the papers were submitted and through such abstracting journals as NUCLEAR SCIENCE ABSTRACTS, CHEMICAL ABSTRACTS and PHYSICS ABSTRACTS. Whenever possible the authors of papers not located in the indexes and abstracting journals were contacted.

In addition to these sources, the American Physical Society's BULLETIN, the American Chemical Society's ABSTRACTS OF PAPERS, the American Nuclear Society's TRANSACTIONS, the Association for Computing Machinery's COMMUNICATIONS and JOURNAL, as well as NONDESTRUCTIVE TESTING and NUCLEONICS were searched. The progress reports of H-Division and the Director's Monthly Status Reports were also checked for their lists of published papers.

Despite all these efforts it is probable that many publications have been missed. The Libraries would like to be informed of any omissions so that the records can be corrected and future listings of this sort made more complete.

Beginning in 1962 a system has been set up whereby the Libraries are automatically informed of all papers cleared for publication or presentation. Continuing follow-ups are made on these until their publication or other disposition is established. Reprints are ordered for all papers, and a small stock is retained by the Libraries for record purposes and for binding into volumes of "Representative Papers by Los Alamos Staff Members." Authors are requested to notify the Libraries of the publication of any papers for which reprints will not be available so that copies of the complete publication can be obtained. Once a month the publications are announced in a special listing in WHAT'S NEW, with a request that any omissions be reported to the Libraries. It is planned that these listings will be cumulated annually and issued as supplements to this bibliography.

Entries in this bibliography are arranged first by year and then alphabetically by first author. Abstracts are separated from full papers and are arranged in a separate alphabet at the end of each year's listing. Entries are designated by numbers beginning with the last two figures of the year of publication; numbers for abstracts carry the letter A at the end. An addendum listing publications discovered after the main body of the bibliography had been prepared has entries designated with numbers beginning with Add-. They are arranged alphabetically by first author regardless of year of publication. An author index and listing by LADC number is given for all entries, including those in the addendum. A tabulation of the number of papers published in each journal appears in Appendix I.

The compilers wish to extend their thanks to the members of D-6 for the use of their files and for their assistance in tracking down elusive publications; to the Records Management Section of Mail and Records for making their records available; and to members of PER-1 and PER-3 for help in identifying LASL staff members, consultants and summer students as well as for aid in determining their full names. Special appreciation is due Almera Turner for her editing and typing of the bibliography and Helen Keller for the preparation of the author index.

Finally the compilers wish to thank all the busy staff members who were both helpful and gracious when asked, "What happened to that paper you wrote five years ago?"



- 57-1 Allen, Lew, Jr., Biggers, Wendell A., Prestwood, Rene J., and Smith, Ronald K.  
CROSS SECTIONS FOR THE  $S^{32}$  AND THE  $S^{34} (n, \alpha) Si^{31}$  REACTIONS.  
Phys. Rev. 107, 1363-66 (1957). (LADC-2861)
- 57-2 Allen, Robert C.  
INTERACTION OF 0.15- TO 1.0-MEV NEUTRONS WITH  $U^{238}$ ,  $U^{235}$ , AND  $Pu^{239}$ .  
Nucl. Sci. Eng. 2, 787-93 (1957). (LADC-2788)
- 57-3 Allen, Robert C.  
LOW-LYING LEVELS IN  $U^{238}$  EXCITED BY INELASTIC NEUTRON SCATTERING.  
Phys. Rev. 105, 1796-98 (1957). (LADC-2553)
- 57-4 Anderson, Ernest C. and Libby, Willard F.  
THE DEVELOPMENT AND APPLICATIONS OF LOW LEVEL COUNTING.  
Adv. Biol. Med. Phys. 5, 385-423 (1957). (LADC-2613)
- 57-5 Anderson, Ernest C.  
SCINTILLATION COUNTERS. THE LOS ALAMOS HUMAN COUNTER.  
Brit. J. Radiol. Suppl. 7, 27-32 (1957). (LADC-3114)
- 57-6 Anderson, Ernest C., Schuch, Robert L., Langham, Wright H., and Fisher, William.  
RADIOACTIVITY OF PEOPLE AND FOODS.  
Science 125, 1273-78 (1957). (LADC-2748)
- 57-7 Armstrong, Dale E., Asprey, Larned B., Coleman, James S., Keenan, Thomas K., LaMar, Lawrence E., and Penneman, Robert A.  
ION EXCHANGE SEPARATION OF GRAM QUANTITIES OF AMERICIUM FROM A KILOGRAM OF LANTHANON.  
A.I.Ch.E. J. 3, 286-8 (1957). (LADC-2372)

- 57-8      Arnold, James R. and Anderson, Ernest C.  
           DISTRIBUTION OF CARBON-14 IN NATURE.  
           Tellus 9, 1, 28-32 (1957). (LADC-2673)
- 57-9      Asprey, Larned B., Ellinger, Finley H., Fried, Sherman, and  
           Zachariasen, William H.  
           EVIDENCE FOR QUADRIVALENT CURIUM. II. CURIUM TETRAFLUORIDE.  
           J. Am. Chem. Soc. 79, 5825 (1957). (LADC-2703)
- 57-10     Baker, Floyd B. and Newton, Thomas W.  
           EFFECT OF D<sub>2</sub>O ON THE RATE OF THE REACTION BETWEEN OXYGEN AND  
           Pu (III).  
           J. Phys. Chem. 61, 381-2 (1957). (LADC-2483)
- 57-11     Bame, Sam J., Jr., Haddad, Eugene, Perry, Joseph E., Jr., and  
           Smith, Ronald K.  
           ABSOLUTE DETERMINATION OF MONOENERGETIC NEUTRON FLUX IN THE  
           ENERGY RANGE 1 TO 30 MEV.  
           Rev. Sci. Instr. 28, 997-1006 (1957). (LADC-2912)
- 57-12     Bame, Samuel J. and Leland, Wallace T.  
           NEUTRON SPECTRUM FROM T+t.  
           Phys. Rev. 106, 1257-59 (1957). (LADC-2674)
- 57-13     Bame, Sam J., Jr. and Perry, Joseph E.  
           T(d,n) He<sup>4</sup> REACTION.  
           Phys. Rev. 107, 1616-20 (1957). (LADC-2296)
- 57-14     Bellman, Richard, Kalaba, Robert, and Wing, G. Milton.  
           ON THE PRINCIPLE OF INVARIANT IMBEDDING AND ONE-DIMENSIONAL  
           NEUTRON MULTIPLICATION.  
           Proc. Nat. Acad. Sci. 43, 517-20 (1957). (LADC-NN-102)
- 57-15     Bergstresser, Karl S.  
           DETERMINATION OF TITANIUM IN PLUTONIUM-TITANIUM ALLOYS.  
           Anal. Chem. 29, 532-4 (1957). (LADC-2491)

- 57-16 Bethe, Hans A., Beyster, John R., and Carter, Robert E.  
INELASTIC CROSS-SECTIONS FOR FISSION-SPECTRUM NEUTRONS.  
Parts I, II, III, IV.  
J. Nucl Energy 3, 207-23; 273-300 (1956); 4, 3-25;  
147-63 (1957). (LADC-2289)
- 57-17 Birkhoff, Garrett and Carter, David.  
RISING PLANE BUBBLES.  
J. Rational Mech. Anal. 6, 769-80 (1957). (LADC-2950)
- 57-18 Bjorklund, Carl W.  
PREPARATION OF  $\text{PuP}_2\text{O}_7$  AND  $\text{PuPO}_4$ .  
J. Am. Chem. Soc. 79, 6347-50 (1957). (LADC-2692)
- 57-19 Boone, Irene U., Strang, Verda G., and Rogers, Betty S.  
EFFECT OF PYRIDOXAL ON UPTAKE OF  $\text{C}^{14}$ -ACTIVITY FROM LABELED  
ISONIAZID BY MYCOBACTERIUM TUBERCULOSIS.  
Am. Rev. Tuberc. Pulmonary Diseases 76, 568-78 (1957).  
(LADC-2839)
- 57-20 Boone, Irene U., Rogers, Betty S., Maxfield, James R., and  
Storer, John B.  
NITROGEN MUSTARD AND TRIETHYLENE MELAMINE CONTENT IN NORMAL  
AND TUMOR TISSUES AFTER INTRA-ARTERIAL AND INTRAVENOUS  
INJECTION IN RATS.  
Cancer Res. 17, 1120-26 (1957). (LADC-2906)
- 57-21 Bricker, Clark E. and Waterbury, Glenn R.  
COLORIMETRIC DETERMINATION OF MICROGRAM AMOUNTS OF TUNGSTEN  
IN URANIUM-TANTALUM-TUNGSTEN ALLOYS.  
Anal. Chem. 29, 1093-95 (1957). (LADC-2564)
- 57-22 Bricker, Clark E. and Waterbury, Glenn R.  
SEPARATION AND DETERMINATION OF MICROGRAM QUANTITIES OF  
ZIRCONIUM.  
Anal. Chem. 29, 558-62 (1957). (LADC-2558)

- 57-23 Brolley, John E., Jr., Putnam, Thomas M., and Rosen, Louis.  
d-D REACTIONS AT 6- TO 14-MEV INPUT ENERGY.  
Phys. Rev. 107, 820-4 (1957). (LADC-2635)
- 57-24 Browne, Charles I., Bayhurst, Barbara P., Ford, George P.,  
Gilmore, James S., Knobeloch, Gordon W., Lang, Ernest J.,  
Melnick, Mitchell A., and Orth, Carl.  
RESONANCE FISSION OF U<sup>235</sup>.  
Phys. Rev. 107, 325 (1957). (LADC-2783)
- 57-25 Brueckner, Keith A. and Gammel, John L.  
SOLUTION OF THE NUCLEAR MANY-BODY PROBLEM.  
Phys. Rev. 105, 1679-81 (1957). (LADC-2697)
- 57-26 Bunker, Merle E., Mize, Jack P., and Starner, John W.  
DISINTEGRATION OF Ga<sup>70</sup>.  
Phys. Rev. 105, 226-31 (1957). (LADC-1596)
- 57-27 Burkhardt, Louis C., Dunaway, Robert E., Mather, Joseph W.,  
Phillips, James A., Sawyer, George A., Stratton, Thomas F.,  
Stovall, Emory J., Jr., and Tuck, James L.  
PINCH EFFECT.  
J. Appl. Phys. 28, 519-21 (1957). (LADC-2614)
- 57-28 Carlson, Richard R.  
CROSS SECTIONS FOR PICKUP REACTIONS OF 14-MEV NEUTRONS WITH  
N<sup>14</sup>.  
Phys. Rev. 107, 1094-98 (1957). (LADC-2829)
- 57-29 Chandrasekhar, Subrahmanyan, Kaufman, Allan N., and Watson,  
Kenneth M.  
PROPERTIES OF AN IONIZED GAS OF LOW DENSITY IN A MAGNETIC  
FIELD. III.  
Ann. Phys. 2, 435-70 (1957). (LADC-3070)
- 57-30 Chase, David M.  
COLLISION MATRIX FOR ROTATIONAL EXCITATION IN THE ADIABATIC  
APPROXIMATION.  
Phys. Rev. 106, 516 (1957). (LADC-2681)

- 57-31 Chase, David M.  
ONE-DIMENSIONAL NUCLEON-NUCLEAR WALL MODEL.  
Phys. Rev. 107, 805-19 (1957). (LADC-2780)
- 57-32 Coleman, James S., Penneman, Robert A., Keenan, Tom K., LaMar,  
Lawrence E., Armstrong, Dale E., and Asprey, Larned B.  
ANION-EXCHANGER PROCESS FOR GRAM-SCALE SEPARATION OF  
AMERICIUM FROM RARE EARTHS.  
J. Inorg. & Nucl. Chem. 3, 327-8 (1957). (LADC-2372b)
- 57-33 Colgate, Sam A. and Aamodt, Rodney Lee.  
PLASMA REACTOR PROMISES DIRECT ELECTRIC POWER.  
Nucleonics 15, 8, 50-5 (1957). (LADC-NNV-74)
- 57-34 Cowan, Clyde L., Jr., and Reines, Frederick.  
NEUTRINO MAGNETIC MOMENT UPPER LIMIT.  
Phys. Rev. 107, 528-30 (1957). (LADC-2819)
- 57-35 Cowan, Clyde L., Jr., and Reines, Frederick.  
SEARCH FOR ANTINEUTRINO INTERACTION WITH DEUTERONS.  
Phys. Rev. 107, 1609-11 (1957). (LADC-2867)
- 57-36 Cowan, Clyde L., Jr., and Reines, Frederick.  
TEST OF NEUTRINO-ANTINEUTRINO IDENTITY.  
Phys. Rev. 106, 825-6 (1957). (LADC-2801)
- 57-37 Cowan, Robert D.  
DERIVATION OF THE ENERGY-DISTRIBUTION FORMULAS OF QUANTUM  
STATISTICS.  
Am. J. Phys. 25, 463-5 (1957). (LADC-2752)
- 57-38 Cowan, Robert D. and Ashkin, Julius.  
EXTENSION OF THE THOMAS-FERMI-DIRAC STATISTICAL THEORY OF  
THE ATOM TO FINITE TEMPERATURES.  
Phys. Rev. 105, 144-57 (1957). (LADC-2236)

- 57-39 Cranberg, Lawrence, Aiello, William P., Beauchamp, Richard K., Lang, Harold J., and Levin, Jules S.  
ENERGY MODULATION FOR PARTICLE ACCELERATORS.  
Rev. Sci. Instr. 28, 84-8 (1957). (LADC-2612)
- 57-40 Cranberg, Lawrence, Beauchamp, Richard K., and Levin Jules S.  
MEASUREMENT OF FAST NEUTRON TOTAL CROSS SECTIONS.  
Rev. Sci. Instr. 28, 89-92 (1957). (LADC-2580)
- 57-41 Cromer, Don T., Douglass, Robert M., and Staritzky, Eugene.  
COPPER MONOCYANIDE, CuCN.  
Anal. Chem. 29, 316 (1957). (LADC-NN-61)
- 57-42 Cromer, Don T.  
CRYSTAL STRUCTURE OF  $KCu(CN)_2$ .  
J. Phys. Chem. 61, 1388-92 (1957), also: Am. Chem. Soc.,  
Abstracts of Papers 131, 11R (1957). (LADC-2679)
- 57-43 Cromer, Don T.  
CRYSTAL STRUCTURE OF MONOCLINIC  $Sm_2O_3$ .  
J. Phys. Chem. 61, 753-5 (1957). (LADC-2650)
- 57-44 Cromer, Don T.  
LEAST-SQUARES REFINEMENT OF THE STRUCTURE OF TETRAMETHYLPYRAZINE.  
J. Phys. Chem. 61, 254-5 (1957). (LADC-2543)
- 57-45 Dash, Jay G. and Taylor, R. Dean.  
DENSITY AND VISCOSITY OF NORMAL FLUID IN DILUTE SOLUTIONS OF  $He^3$  IN  $He^4$ .  
Phys. Rev. 107, 1228-37 (1957). (LADC-2723)
- 57-46 Dash, Jay G. and Taylor, R. Dean.  
HYDRODYNAMICS OF OSCILLATING DISKS IN VISCOUS FLUIDS: DENSITY AND VISCOSITY OF NORMAL FLUID IN PURE  $He^4$  FROM 1.2°K TO THE LAMBDA POINT.  
Phys. Rev. 105, 7-24 (1957). (LADC-2171)

- 57-47 Davis, William C.  
RETICLE-PROJECTING MICROSCOPE.  
Rev. Sci. Instr. 28, 577-9 (1957). (LADC-2677)
- 57-48 Deal, William E.  
MEASUREMENT OF CHAPMAN-JOUGUET PRESSURE FOR EXPLOSIVES.  
J. Chem. Phys. 27, 796-800 (1957). (LADC-1708)
- 57-49 Deal, William E.  
SHOCK HUGONIOT OF AIR.  
J. Appl. Phys. 28, 782-4 (1957). (LADC-1560)
- 57-50 Diven, Ben C.  
FISSION CROSS SECTION OF U<sup>235</sup> FOR FAST NEUTRONS.  
Phys. Rev. 105, 1350-53 (1957). (LADC-2092)
- 57-51 Douglass, Robert M.  
CRYSTAL STRUCTURE OF HCrO<sub>2</sub>.  
Acta Cryst. 10, 423-7 (1957). (LADC-2523)
- 57-52 Douglass, Robert M. and Staritzky, Eugene.  
DIURANYL CHROMATE URANIUM TRIOXIDE TETRAHYDRATE, 2UO<sub>2</sub>CrO<sub>4</sub>.  
UO<sub>3</sub>.4H<sub>2</sub>O.  
Anal. Chem. 29, 314-5 (1957). (LADC-2524)
- 57-53 Douglass, Robert M. and Staritzky, Eugene.  
MOLYBDENUM METAPHOSPHATE, Mo(PO<sub>3</sub>)<sub>3</sub>.  
Anal. Chem. 29, 985 (1957). (LADC-NN-38)
- 57-54 Douglass, Robert M. and Staritzky, Eugene.  
NIOBIUM PENTACHLORIDE, NbCl<sub>5</sub>.  
Anal. Chem. 29, 315-6 (1957). (LADC-NN-39)
- 57-55 Douglass, Robert M.  
TETRAHYDROGEN TRIPOTASSIUM THORIUM HENDECANITRATE, H<sub>4</sub>K<sub>3</sub>Th(NO)<sub>11</sub>.  
Anal. Chem. 29, 165-6 (1957). (LADC-NN-37)

- 57-56 Douglass, Robert M. and Staritzky, Eugene.  
URANIUM TETRABROMIDE,  $UBr_4$ .  
Anal. Chem. 29, 459 (1957). (LADC-2532)
- 57-57 Doyle, Thomas C.  
INVERSION OF SYMMETRIC COEFFICIENT MATRIX OF POSITIVE-  
DEFINITE QUADRATIC FORM.  
Math. Tables Aids Comput. 11, 58, 55-8 (1957). (LADC-2418)
- 57-58 Dropesky, Bruce J. and Langer, Laurence M.  
BETA SPECTRUM OF  $Th^{233}$ .  
Phys. Rev. 108, 90-1 (1957). (LADC-2899)
- 57-59 Duff, Russell E. and Minshall, F. Stanley.  
INVESTIGATION OF A SHOCK-INDUCED TRANSITION IN BISMUTH.  
Phys. Rev. 108, 1207-12 (1957). (LADC-2951)
- 57-60 Dutli, James W. and Elliott, Dana E.  
EVALUATION OF THULIUM-170 TO INDUSTRIAL RADIOGRAPHY.  
Nondestructive Testing 15, 112-4 (1957). (LADC-2549)
- 57-61 Edeskuty, Frederick J.  
LABORATORY GAS COMPRESSOR FOR PRESSURES UP TO 3000 PSI.  
Rev. Sci. Instr. 28, 142-3 (1957). (LADC-2599)
- 57-62 Ernst, Frederick J., Jr.  
LINEAR AND TOROIDAL GEONS.  
Phys. Rev. 105, 1665-70 (1957). (LADC-NN-25)
- 57-63 Fickett, Wildon, Wood, William W., and Salsburg, Zevi W.  
INVESTIGATIONS OF THE DETONATION PROPERTIES OF CONDENSED  
EXPLOSIVES WITH EQUATIONS OF STATE BASED ON INTERMOLECULAR  
POTENTIALS. I. RDX WITH FIXED PRODUCT COMPOSITION.  
J. Chem. Phys. 27, 1324-29 (1957). (LADC-2946)



- 57-64 Foreman, Harry and Finnegan, Camille.  
EFFECT OF ETHYLENEDIAMINETETRAACETIC ACID ON DEPOSITION AND  
EXCRETION OF CERTAIN RARE EARTH ELEMENTS.  
J. Biol. Chem. 226, 745-9 (1957). (LADC-2474)
- 57-65 Foreman, Harry, Post, James, and Finnegan, Camille.  
EFFECT OF X-IRRADIATION ON THE ABSORPTION OF PLUTONIUM IN  
THE GASTROINTESTINAL TRACT.  
Radiation Res. 7, 267-9 (1957). (LADC-2714)
- 57-66 Furchner, John E.  
RELATIVE BIOLOGICAL EFFECTIVENESS OF TRITIUM BETA-PARTICLES  
AND Co<sup>60</sup> GAMMA-RAYS MEASURED BY LETHALITY IN CFL MICE.  
Radiation Res. 6, 483-90 (1957). (LADC-2581)
- 57-67 Gammel, John L., Christian, Richard S., and Thaler, Raphael  
Morton.  
CALCULATION OF PHENOMENOLOGICAL NUCLEON-NUCLEON POTENTIALS.  
Phys. Rev. 105, 311-9 (1957). (LADC-2556)
- 57-68 Gammel, John L. and Thaler, Roy M.  
p-p TRIPLE SCATTERING PREDICTIONS AT 100-170 MEV.  
Phys. Rev. 108, 163-4 (1957). (LADC-2955)
- 57-69 Gammel, John L. and Thaler, Roy M.  
SPIN-ORBIT COUPLING IN THE NEUTRON-PROTON INTERACTION.  
Phys. Rev. 107, 1337-40 (1957). (LADC-2869)
- 57-70 Gammel, John L. and Thaler, Raphael Morton.  
SPIN-ORBIT COUPLING IN THE PROTON-PROTON INTERACTION.  
Phys. Rev. 107, 291-8 (1957). (LADC-2803)
- 57-71 Gilman, Henry, Weipert, Eugene A., Soddy, Theodore, and Hayes,  
F. Newton.  
SOME DERIVATIVES OF AZA-AROMATIC HETEROCYCLES AS LIQUID  
SCINTILLATOR SOLUTES.  
J. Org. Chem. 22, 1169-71 (1957). (LADC-NN-30)

- 57-72 Goldstein, Louis.  
ON THE THEORY OF THE LIQUID He-4 PHASE TRANSFORMATION.  
Ann. Phys. 2, 177-98 (1957). (LADC-2207)
- 57-73 Goldstein, Louis.  
ON THE THEORY OF LIQUIDS.  
Ann. Phys. 1, 33-57 (1957). (LADC-2540)
- 57-74 Gorum, Alvin E.  
CRYSTAL STRUCTURES OF PuAs, PuTe, PuP AND PuOSe.  
Acta Cryst. 10, 144 (1957). (LADC-1937)
- 57-75 Gould, R. Gordon, Lotz, L. Virginia, and Lilly, Edith H.  
ABSORPTION AND METABOLISM OF DIHYDROCHOLESTEROL AND BETA-SITOSTEROL.  
Biochemical Problems of Lipids, Popjak, G. and LeBreton, E. (eds) (Interscience, New York), p. 353-8 (1957)  
(LADC-1874)
- 57-76 Gould, R. Gordon, Werbin, Harold, Bergenstal, Delbert M., and LeRoy, George V.  
EVALUATION OF TRITIUM CHOLESTEROL AS A TRACER IN MAN.  
J. Clin. Endocrinol. 17, 337-45 (1957). (LADC-2521)
- 57-77 Graves, Glen A. and Paxton, Hugh C.  
CRITICAL MASSES OF ORALLOY ASSEMBLIES.  
Nucleonics 15, 6, 90-2 (1957). (LADC-2528)
- 57-78 Grilly, Edward R. and Mills, Robert L.  
VOLUME CHANGE ON MELTING OF N<sub>2</sub> UP TO 3500 kg/cm<sup>2</sup>.  
Phys. Rev. 105, 1140-45 (1957). (LADC-2615)
- 57-79 Harlow, Francis H.  
HYDRODYNAMIC PROBLEMS INVOLVING LARGE FLUID DISTORTIONS.  
J. Assoc. Comput. Mach. 4, 2, 137-42 (1957). (LADC-2593)

- 57-80 Head, Earl L., Holley, Charles E., Jr., and Rabideau, Sherman W.  
 Di-t-BUTYLBERYLLIUM AND BERYLLIUM HYDRIDE.  
 J. Am. Chem. Soc. 79, 3687-89 (1957). (LADC-2657)
- 57-81 Helmer, Richard J. and Hemmendinger, Arthur.  
 PRECISION INTEGRATOR FOR BEAM CURRENT.  
 Rev. Sci. Instr. 28, 649-51 (1957). Also: Bull. Am.  
 Phys. Soc. 2, 2, 100 (1957). (LADC-2668)
- 57-82 Hiebert, Richard D., Mitchell, Robert N., and Tod, David B.  
 SIMPLE MONITOR FOR AIRBORNE ALPHA PARTICLES.  
 I.R.E., Trans. on Nucl. Sci. NS-4, 2, 66-9 (1957).  
 (LADC-2727)
- 57-83 Hill, David Lawrence.  
 MATTER AND CHARGE DISTRIBUTION WITHIN ATOMIC NUCLEI.  
 Handbuch der Physik 39, 178-240 (1957). (LADC-2340)
- 57-84 Hoffman, Darleane C.  
 ALPHA DECAY IN PLUTONIUM-237.  
 J. Inorg. & Nucl. Chem. 4, 383-5 (1957). (LADC-2770)
- 57-85 Hoffman, Darleane C., Ford, George P., and Lawrence, Francine O.  
 HALF-LIFE OF Pu<sup>236</sup>.  
 J. Inorg. & Nucl. Chem. 4, 143-5 (1957). (LADC-2630)
- 57-86 Hoffman, Darleane C., Ford, George P., and Lawrence, Francine O.  
 HALF-LIFE OF Pu<sup>238</sup>.  
 J. Inorg. & Nucl. Chem. 5, 6-11 (1957). (LADC-2634)
- 57-87 Hoffman, Joseph G. and Hempelmann, Louis H.  
 ESTIMATION OF WHOLE-BODY RADIATION DOSES IN ACCIDENTAL  
 FISSION BURSTS.  
 Am. J. Roentgenol. Radium Therapy Nucl. Med. 77, 144-60  
 (1957). (LADC-1495)

- 57-88 Holladay, John C.  
 CARTESIAN PRODUCTS OF TERMINATION GAMES.  
 Ann. Math. Studies, No. 39. Contrib. Theory Games 3,  
 189-200 (1957). (LADC-2533)
- 57-89 Holladay, John C.  
 NOTE ON THE STONE-WEIERSTRASS THEOREM FOR QUATERNIONS.  
 Am. Math. Soc. Proc. 8, 656-7 (1957). (LADC-2629)
- 57-90 Holladay, John C.  
 ON THE EXISTENCE OF A MIXING MEASURE.  
 Am. Math. Soc. Proc. 8, 887-93 (1957). (LADC-2567)
- 57-91 Holladay, John C.  
 SMOOTHEST CURVE APPROXIMATION.  
 Math. Tables Aids Comput. 11, 60, 233-43 (1957).  
 (LADC-2616)
- 57-92 Holland, Thomas E., Campbell, Arthur W., and Malin, Murray E.  
 PHENOMENA ASSOCIATED WITH DETONATION IN LARGE SINGLE CRYSTALS.  
 J. Appl. Phys. 28, 1217 (1957). (LADC-2894)
- 57-93 Huber, Elmer J., Head, Earl L., and Holley, Charles E., Jr.  
 HEAT OF COMBUSTION OF HOLMIUM.  
 J. Phys. Chem. 61, 1021-22 (1957). (LADC-2790)
- 57-94 Huber, Elmer J., Head, Earl L., and Holley, Charles E., Jr.  
 HEAT OF COMBUSTION OF YTTERIUM.  
 J. Phys. Chem. 61, 497-8 (1957). (LADC-2584)
- 57-95 Igo, George J. and Thaler, Roy M.  
 OPTICAL-MODEL ANALYSIS OF THE ELASTIC SCATTERING OF ALPHA  
 PARTICLES.  
 Phys. Rev. 106, 126-33 (1957). (LADC-2607)

- 57-96 Johnson, Rowland E., Staritzky, Eugene, and Douglass, Robert M.  
DIMORPHIC MODIFICATIONS OF BERYLLIUM DIIODIDE,  $\text{BeI}_2$ .  
J. Am. Chem. Soc. 79, 2037-39 (1957). (LADC-2539)
- 57-97 Jones, Llewellyn H.  
CALIBRATION OF PRISM SPECTROMETERS FROM 1300-2100  $\text{cm}^{-1}$ .  
J. Chem. Phys. 27, 1229-30 (1957). (LADC-2866)
- 57-98 Jones, Llewellyn H. and Goldblatt, Maxwell.  
INFRARED SPECTRUM AND MOLECULAR CONSTANTS OF GASEOUS TRITIUM  
FLUORIDE.  
J. Mol. Spectr. 1, 43-8 (1957). (LADC-3126)
- 57-99 Jones, Llewellyn H.  
VIBRATION-ROTATION SPECTRUM OF DEUTERIUM IODIDE.  
J. Mol. Spectr. 1, 179-83 (1957). (LADC-2847)
- 57-100 Jones, Llewellyn H.  
VIBRATIONAL SPECTRUM AND STRUCTURE OF METAL-CYANIDE COMPLEXES  
IN THE SOLID STATE. I.  $\text{KAg}(\text{CN})_2$ .  
J. Chem. Phys. 26, 1578-84 (1957). (LADC-2860)
- 57-101 Jones, Llewellyn H.  
VIBRATIONAL SPECTRUM AND STRUCTURE OF METAL-CYANIDE COMPLEXES  
IN THE SOLID STATE. II.  $\text{KAu}(\text{CN})_2$ .  
J. Chem. Phys. 27, 468-72 (1957). (LADC-2800)
- 57-102 Jones, Llewellyn H.  
VIBRATIONAL SPECTRUM AND STRUCTURE OF METAL-CYANIDE COMPLEXES  
IN THE SOLID STATE. III.  $\text{Hg}(\text{CN})_2$ .  
J. Chem. Phys. 27, 665-8 (1957). (LADC-2602)
- 57-103 Keenan, Thomas K.  
ISOTOPIC EXCHANGE BETWEEN Pu (III) AND Pu (IV).  
J. Phys. Chem. 61, 1117-20 (1957). (LADC-2294b)

- 57-104 Keepin, George Robert, Wimett, Thomas F., and Zeigler, Royal K.  
 DELAYED NEUTRONS FROM FISSIONABLE ISOTOPEs OF URANIUM,  
 PLUTONIUM AND THORIUM.  
 J. Nucl. Energy 6, 1-21 (1957). Also: Phys. Rev. 107,  
 1044-49 (1957). (LADC-2862 and LA-2118)
- 57-105 Keepin, G. Robert.  
 PREDICTION OF DELAYED-NEUTRON PRECURSORS.  
 Phys. Rev. 106, 1359-60 (1957). (LADC-2859)
- 57-106 Keller, William E.  
 CALCULATION OF THE VISCOSITY OF GASEOUS He<sup>3</sup> AND He<sup>4</sup> AT LOW  
 TEMPERATURES.  
 Phys. Rev. 105, 41-5 (1957). (LADC-2502)
- 57-107 Kempter, Charles P., Krikorian, Nerses H., and McGuire, Joseph  
 C.  
 CRYSTAL STRUCTURE OF YTTRIUM NITRIDE.  
 J. Phys. Chem. 61, 1237-38 (1957). (LADC-2874)
- 57-108 Kempter, Charles P. and Alvarez-Tostado, C.  
 REACTIONS OF SILICON WITH THE SILICON TETRAHALIDES.  
 Z. Anorg. Allegem. Chem. 290, 238-50 (1957). (LADC-MN-103)
- 57-109 Kerr, Eugene C.  
 DENSITY OF LIQUID He<sup>4</sup>.  
 J. Chem. Phys. 26, 511-4 (1957). (LADC-2456)
- 57-110 Kerr, Vernon N., Hayes, F. Newton, and Ott, Donald G.  
 LIQUID SCINTILLATORS. III. THE QUENCHING OF LIQUID-  
 SCINTILLATOR SOLUTIONS BY ORGANIC COMPOUNDS.  
 Intern. J. Appl. Radiation Isotopes 1, 284-8 (1957).  
 (LADC-2379)
- 57-111 Kissinger, Leonard W., McQuiston, William E., Schwartz,  
 Mortimer, and Goodman, Leon.  
 gem-DINITRO ESTERS. I. PREPARATION AND SOME REACTIONS OF  
 ALPHA-HYDROXY-BETA, BETA-DINITROPROPIONIC AND -BUTYRIC ACIDS.  
 J. Org. Chem. 22, 1658-62 (1957). (LADC-2665)

- 57-112 Kister, James M., Stein, Paul R., Ulam, Stanislaw M., Walden, William, and Wells, Mark B.  
EXPERIMENTS IN CHESS.  
J. Assoc. Comput. Mach. 4, 174-7 (1957). (LADC-2577)
- 57-113 Kolsky, Harwood G., Gilmer, Ruth M., and Gilles, Paul W.  
FREE ENERGY FUNCTIONS FOR 54 GASEOUS ELEMENTS.  
J. Chem. Phys. 27, 494-5 (1957). (LADC-2806)
- 57-114 Langham, Wright H.  
EXCRETION METHODS: The application of excretion analyses to the determination of body burden of radioactive isotopes.  
Brit. J. Radiol., Suppl. 7, 95-113 (1957). (LADC-2328 and LADC-2356)
- 57-115 Langham, Wright H.  
PROBLEM OF WORLD-WIDE RADIOACTIVE FALLOUT FROM NUCLEAR WEAPONS TESTING.  
Symp. Reproduction and Infertility, 3d, 12p (1957). (LADC-2779)
- 57-116 Langham, Wright H. and Anderson, Ernest C.  
STRONTIUM-90 AND SKELETAL FORMATION.  
Science 126, 205-6 (1957). (LADC-2876)
- 57-117 Laquer, Henry I. and Hammel, Edward F.  
CRYOGENIC ELECTROMAGNETS. I. FEASIBILITY STUDY.  
Rev. Sci. Instr. 28, 875-8 (1957). (LADC-2909)
- 57-118 Larson, Allen C., Cromer, Don T., and Stambaugh, Claude K.  
CRYSTAL STRUCTURE OF PuAl<sub>3</sub>.  
Acta Cryst. 10, 443-6 (1957). (LADC-2546)
- 57-119 Leachman, Robert B. and Schmitt, Harold W.  
CROSS-SECTION FOR U<sup>238</sup> FISSION BY FISSION NEUTRONS.  
J. Nucl. Energy 4, 38-43 (1957). (LADC-2111)

- 57-120 Leachman, Robert B. and Kazek, Chester S., Jr.  
NEUTRON EMISSION FROM FISSION MODES.  
Phys. Rev. 105, 1511-13 (1957). (LADC-2623)
- 57-121 Lehner, Joseph.  
FOURIER COEFFICIENTS OF AUTOMORPHIC FORMS BELONGING TO A  
CLASS OF HOROCYCLIC GROUPS.  
Mich. Math. J. 4, 265-79 (1957). (LADC-3118)
- 57-122 LeRoy, George V., Gould, R. Gordon, Bergenstal, Delbert M.,  
Werbin, Harold, and Kabara, D. Joseph.  
STUDIES ON EXTRAHEPATIC CHOLESTEROL SYNTHESIS AND EQUILIBRA-  
TION IN MAN USING A DOUBLE LABELING TECHNIQUE.  
J. Lab. Clin. Med. 49, 858-68 (1957). (LADC-2027)
- 57-123 Lewis, W. Burton and Elliott, Norman.  
MAGNETIC SUSCEPTIBILITIES OF SOME Pu<sup>+4</sup> COMPOUNDS.  
J. Chem. Phys. 27, 904-8 (1957). (LADC-2864)
- 57-124 Lillienthal, James R.  
NEW HOT METALLURGICAL LABORATORY AT LOS ALAMOS.  
Hot Lab. Oper. Equip. 3, 9-13 (1957). (LADC-2699)
- 57-125 Longmire, Conrad L.  
METHOD FOR DETERMINING THERMAL CONDUCTIVITY AT HIGH TEMPERA-  
TURES.  
Rev. Sci. Instr. 28, 904-6 (1957). (LADC-2879)
- 57-126 Lushbaugh, Clarence C. and Spalding, John F.  
NATURAL PROTECTION OF SHEEP FROM EXTERNAL BETA RADIATION.  
Am. J. Vet. Res. 18, 345-61 (1957). (LADC-2565)
- 57-127 Lushbaugh, Clarence C.  
VERTEBRATE RADIOBIOLOGY (THE PATHOLOGY OF RADIATION EXPOSURE)  
Ann. Rev. Nucl. Sci. 7, 163-84 (1957). (LADC-2821)
- 57-128 Malin, Murray E., Campbell, Arthur W., and Mautz, Charles W.  
PARTICLE-SIZE EFFECTS IN EXPLOSIVES AT FINITE AND INFINITE  
DIAMETERS.  
J. Appl. Phys. 28, 63-9 (1957). (LADC-1721)



- 57-129 Metz, Charles F.  
ANALYTICAL CHEMISTRY OF PLUTONIUM.  
Anal. Chem. 29, 1748-56 (1957). (LADC-2973)
- 57-130 Mitchell, Robert N. and Hyatt, Edwin C.  
BERYLLIUM: Hazard evaluation and control covering a five-year study.  
Am. Ind. Hyg. Assoc. Quart. 18, 207-13 (1957). (LADC-2620)
- 57-131 Muller, Doris Clegg.  
INTERACTION OF BETA PARTICLES WITH ORGANIC COMPOUNDS.  
Anal. Chem. 29, 975-8 (1957). (LADC-2537b)
- 57-132 Muller, Ralph H.  
ADVENTURES IN INSTRUMENTATION.  
Anal. Chem. 29, 1118-23 (1957). Also: Am. Chem. Soc. Abstracts of Papers 131, 3B (1957). (LADC-2820)
- 57-133 Muller, Ralph H.  
INTERACTION OF BETA PARTICLES WITH MATTER.  
Anal. Chem. 29, 969-75 (1957). (LADC-2537a)
- 57-134 Newton, Thomas W. and Baker, Floyd B.  
CHLORIDE COMPLEX IONS OF Pu(VI).  
J. Phys. Chem. 61, 934-38 (1957). (LADC-2655)
- 57-135 Nobles, Ralph.  
HIGH-CURRENT GAS TARGET.  
Rev. Sci. Instr. 28, 962-3 (1957). (LADC-2850)
- 57-136 Orndoff, John D.  
PROMPT NEUTRON PERIODS OF METAL CRITICAL ASSEMBLIES.  
Nucl. Sci. Eng. 2, 450-60 (1957). (LADC-2416)
- 57-137 Ott, Donald G., Hayes, Newton, Hansbury, Elizabeth, and Kerr, Vernon N.  
LIQUID SCINTILLATORS. V. ABSORPTION AND FLUORESCENCE SPECTRA OF 2.5-DIARYLOXAZOLES AND RELATED COMPOUNDS.  
J. Am. Chem. Soc. 79, 5448-54 (1957). (LADC-2823)

- 57-138 Paxton, Hugh C.  
 GODIVA WRECKED AT LOS ALAMOS.  
 Nucleonics 15, 4, 104 (1957). (LADC-NN-49)
- 57-139 Peek, H. Milton and Thrap, Robert G.  
 GASEOUS DETONATIONS IN MIXTURES OF CYANOGEN AND OXYGEN.  
 J. Chem. Phys. 26, 740-5 (1957). (LADC-1718)
- 57-140 Petersen, Donald F., Lushbaugh, Clarence C., and Lee, Paul.  
 SERUM GLUTAMIC-OXALACETIC TRANSAMINASE ACTIVITY IN IRRADIATED  
 ANIMALS.  
 Federation Proc. 16, 327 (1957). (LADC-2691)
- 57-141 Pinson, Ernest A. and Langham, Wright H.  
 PHYSIOLOGY AND TOXICOLOGY OF TRITIUM IN MAN.  
 J. Appl. Physiol. 10, 108-26 (1957). (LADC-2529)
- 57-142 Rabideau, Sherman W.  
 HYDROLYSIS OF PLUTONIUM (IV).  
 J. Am. Chem. Soc. 79, 3675-77 (1957). (LADC-2680)
- 57-143 Rabideau, Sherman W.  
 KINETICS OF THE DISPROPORTIONATION OF PLUTONIUM (V).  
 J. Am. Chem. Soc. 79, 6350-53 (1957). Also: Am. Chem.  
 Soc., Abstracts of Papers 131, 33R (1957). (LADC-2660)
- 57-144 Reines, Frederick and Cowan, Clyde L., Jr.  
 NEUTRINO PHYSICS.  
 Phys. Today 10, 8, 12-18 (1957). (LADC-2849)
- 57-145 Ribe, Fred L.  
 $F^{19}(n,d)O^{18}$  REACTIONS AND ENERGY LEVELS OF  $O^{18}$ .  
 Phys. Rev. 106, 767-71 (1957). (LADC-2122)
- 57-146 Rice, Melvin H. and Walsh, John M.  
 EQUATION OF STATE OF WATER TO 250 KILOBARS.  
 J. Chem. Phys. 26, 824-30 (1957). (LADC-1827)

- 57-147 Richmond, Chester R., Langham, Wright H., and Woodward, Kent T.  
MEASUREMENT OF RETENTION AND EXCRETION OF RADIOISOTOPES OF  
THE ALKALI METALS BY MICE AND RATS USING AN ANNULAR LIQUID  
SCINTILLATION COUNTERS.  
Proc. Health Phys. Soc. Meeting, p.79-88 (1947). Univ.  
of Michigan. (LADC-2443)
- 57-148 Ronzio, Anthony R.  
ANALYSIS OF FORMALDEHYDE AND GLYOXALIC ACID.  
Microchem. J. 1, 59-66 (1957). (LADC-NN-81)
- 57-149 Rosen, Louis and Brolley, John E., Jr.  
POLARIZED PROTONS FOR THE ELASTIC SCATTERING OF  $\alpha$ -PARTICLES  
BY HYDROGEN.  
Phys. Rev. 107, 1454-55 (1957). (LADC-2926)
- 57-150 Rosenbluth, Marshall N. and Longmire, Conrad L.  
STABILITY OF PLASMA CONFINED BY MAGNETIC FIELDS.  
Ann. Phys. 1, 120-40 (1957). (LADC-2698)
- 57-151 Scharadt, Alois W.  
SHORT-LIVED ISOMERS OF As<sup>75</sup> AND As<sup>77</sup>.  
Phys. Rev. 108, 398-406 (1957). (LADC-2295)
- 57-152 Schlesinger, Stewart.  
APPROXIMATING EIGENVALUES AND EIGENFUNCTIONS OF SYMMETRIC  
KERNELS.  
J. Soc. Ind. Appl. Math. 2, 1-14 (1957). (LADC-NN-13)
- 57-153 Schuch, Robert L.  
MEASUREMENT OF GAMMA RADIATION IN THE HUMAN BODY.  
ISA J. 4, 162-5 (1957). (LADC-2722)
- 57-154 Schuch, Robert L.  
MEASUREMENTS OF LOW LEVEL GAMMA ACTIVITY IN THE HUMAN BODY.  
Proc. Nat. Nucl. Instr. Conf., Atlanta, Georgia, N57-81  
(1957). (LADC-2722)

- 57-155 Schulte, John W.  
RADIATION-INDUCED EXCHANGE OF CHLORINE WITH CARBON TETRA-  
CHLORIDE.  
J. Am. Chem. Soc. 79, 4643-48 (1957). (LADC-2376)
- 57-156 Seagrave, John D. and Cranberg, Lawrence.  
n-d SCATTERING AT 2.45 AND 3.27 MEV.  
Phys. Rev. 105, 1816-20 (1957). (LADC-2662)
- 57-157 Sigler, Paul B. and Masters, Burton J.  
THE HYDROGEN PEROXIDE-INDUCED Ce\*(III)-Ce(IV) EXCHANGE  
SYSTEM.  
J. Am. Chem. Soc. 79, 6353-57 (1957). (LADC-2838)
- 57-158 Smith, Morton C., Olson, Donald M., and Brown, Harry L.  
TESTING MACHINE FOR SHORT-TIME CREEP AND STRESS-RUPTURE  
TESTING AT 2000 TO 2500°C.  
Rev. Sci. Instr. 28, 543-7 (1957). (LADC-2663)
- 57-159 Spalding, John F., Wellnitz, Julia Marie, and Schweitzer,  
William H.  
EFFECTS OF HIGH-DOSAGE X-RAY ON THE MATURATION OF THE RAT  
OVUM AND THEIR MODIFICATION BY GONADOTROPINS.  
Fertility Sterility 8, 80-8 (1957). (LADC-2151)
- 57-160 Spalding, John F., Wellnitz, Julia Marie, and Schweitzer,  
William H.  
EFFECTS OF RAPID MASSIVE DOSES OF GAMMA-RAYS ON THE TESTES  
AND GERM CELLS OF THE RAT.  
Radiation Res. 7, 65-70 (1957). (LADC-2282)
- 57-161 Stapp, Henry P., Ypsilantis, Tom J., and Metropolis, Nicholas.  
PHASE-SHIFT ANALYSIS OF 310-MEV PROTON-PROTON SCATTERING  
EXPERIMENTS.  
Phys. Rev. 105, 302-10 (1957). (LADC-NN-12)
- 57-162 Staritzky, Eugene and Asprey, Larned B.  
ALUMINUM TRIFLUORIDE,  $AlF_3$ .  
Anal. Chem. 29, 984 (1957). (LADC-2782)

- 57-163 Staritzky, Eugene and Walker, Donald I.  
DIRUBIDIUM URANYL TETRANITRATE,  $Rb_2UO_2(NO_3)_4$ .  
Anal. Chem. 29, 164-6 (1957). (LADC-2524b)
- 57-164 Staritzky, Eugene and Asprey, Larned B.  
LANTHANUM TRIFLUORIDE,  $LaF_3$ . NEODYMIUM TRIFLUORIDE,  $NdF_3$ .  
Anal. Chem. 29, 856-57 (1957). (LADC-NN-94)
- 57-165 Staritzky, Eugene and Asprey, Larned B.  
YTRIUM TRIFLUORIDE,  $YF_3$ , ORTHORHOMBIC FORM. SAMARIUM  
TRIFLUORIDE,  $SmF_3$ , ORTHORHOMBIC FORM. YTERBIUM TRIFLUORIDE,  
 $YbF_3$ , ORTHORHOMBIC FORM.  
Anal. Chem. 29, 855-6 (1957). (LADC-2782)
- 57-166 Stein, Paul R. and Ulam, Stanislaw M.  
EXPERIMENTS IN CHESS ON ELECTRONIC COMPUTING MACHINES.  
Chess Rev. 25, 13-5 (1957). (LADC-2659)
- 57-167 Stein, William E.  
VELOCITIES OF FRAGMENT PAIRS FROM  $U^{233}$ ,  $U^{235}$  AND  $Pu^{239}$   
FISSION.  
Phys. Rev. 108, 94-8 (1957). (LADC-2875)
- 57-168 Stewart, Leona and Rosen, Louis.  
NEUTRON EMISSION PROBABILITIES FROM THE INTERACTION OF 14-MEV  
NEUTRONS WITH Be, Ta, AND Bi.  
Phys. Rev. 107, 824-9 (1957). (LADC-2631)
- 57-169 Stoddard, Stephen D. and Harper, Wallace T.  
REFRATORIES FOR MELTING AND CASTING URANIUM AND OTHER  
METALS.  
Am. Ceram. Soc. Bull. 36, 105-8 (1957). (LADC-2326)
- 57-170 Storer, John B., Harris, Payne S., Furchner, John E. and  
Langham, Wright H.  
RELATIVE BIOLOGICAL EFFECTIVENESS OF VARIOUS IONIZING  
RADIATIONS IN MAMMALIAN SYSTEMS.  
Radiation Res. 6, 188-288 (1957). (LADC-2412)

- 57-171 Sydoriak, Stephen G. and Roberts, Thomas R.  
CONTINUOUSLY VARIABLE HIGH CURRENT RHEOSTAT.  
Rev. Sci. Instr. 28, 143 (1957). (LADC-2624)
- 57-172 Sydoriak, Stephen G. and Roberts, Thomas R.  
STUDY OF BOILING IN SHORT NARROW CHANNELS AND ITS APPLICATION  
TO DESIGN OF MAGNETS COOLED BY LIQUID H<sub>2</sub> AND N<sub>2</sub>.  
J. Appl. Phys. 28, 143-8 (1957). (LADC-2449)
- 57-173 Sydoriak, Stephen G. and Roberts, Thomas R.  
THERMODYNAMIC PROPERTIES OF LIQUID HELIUM THREE. VAPOR  
PRESSURES BELOW 1°K.  
Phys. Rev. 106, 175-82 (1957). (LADC-2672)
- 57-174 Taylor, R. Dean and Dash, Jay G.  
HYDRODYNAMICS OF OSCILLATING DISKS IN VISCOUS FLUIDS:  
VISCOSITIES OF LIQUIDS He<sup>3</sup> AND He<sup>4</sup>.  
Phys. Rev. 106, 398-403 (1957). (LADC-2600)
- 57-175 Tenney, Gerold H.  
NONDESTRUCTIVE TESTING OF URANIUM.  
Am. Soc. Testing Mater., Symp. Nondestructive Testing,  
36-48 (1957). (LADC-2457)
- 57-176 Terrell, James.  
DISTRIBUTIONS OF FISSION NEUTRON NUMBERS.  
Phys. Rev. 108, 783-9 (1957). (LADC-2880)
- 57-177 Thaler, Raphael Morton and Biedenharn, Lawrence C.  
NOTE ON THE CALCULATION OF COULOMB PENETRATION AND COULOMB  
WAVE FUNCTIONS.  
Nucl. Phys. 3, 207-12 (1957). (LADC-2592)
- 57-178 Withdrawn

- 57-179 Thamer, Burton J.  
SPECTROPHOTOMETRIC AND SOLVENT-EXTRACTION STUDIES OF URANYL PHOSPHATE COMPLEXES.  
J. Am. Chem. Soc. 79, 4298-305 (1957). (LADC-2334)
- 57-180 Thamer, Burton J., Douglass, Robert M., and Staritzky, Eugene.  
THERMAL DECOMPOSITION OF AQUEOUS CHROMIC ACID AND SOME PROPERTIES OF THE RESULTING SOLID PHASES.  
J. Am. Chem. Soc. 79, 547-50 (1957). (LADC-2531)
- 57-181 Ulam, Stanislaw M.  
INFINITE MODELS IN PHYSICS.  
Symp. Appl. Math. 7, 87-95 (1957). (LADC-2017)
- 57-182 Ulam, Stanislaw M.  
MARIAN SMOLUCHOWSKI AND THE THEORY OF PROBABILITIES IN PHYSICS.  
Am. J. Phys. 25, 475-81 (1957). (LADC-2959)
- 57-183 Ungnade, Herbert E. and Kissinger, Leonard W.  
DERIVATIVES OF NITROMETHYLAMINES. I. NITROMETHYL ISOCYANATES.  
J. Org. Chem. 22, 1662-65 (1957). (LADC-2778)
- 57-184 Ungnade, Herbert E. and Kissinger, Leonard W.  
ULTRAVIOLET ABSORPTION SPECTRA OF DINITRO COMPOUNDS.  
J. Org. Chem. 22, 1088-90 (1957). (LADC-2837)
- 57-185 Waber, James T.  
STUDY OF A SIZE EFFECT IN GALVANIC CORROSION.  
Corrosion 13, 25-32 (1957). (LADC-2270)
- 57-186 Walden, William.  
A STUDY OF SIMPLE GAMES THROUGH EXPERIMENTS ON COMPUTING MACHINES.  
Ann. Math. Studies, No. 39. Contrib. Theory Games 3, 201-11 (1957). (LADC-2407)

- 57-187 Walsh, John M. and Rice, Melvin H.  
DYNAMIC COMPRESSION OF LIQUIDS FROM MEASUREMENTS ON STRONG SHOCK WAVES.  
J. Chem. Phys. 26, 815-23 (1957). (LADC-2368)
- 57-188 Walsh, John M., Rice, Melvin H., McQueen, Robert G., and Yarger, Frederick L.  
SHOCK-WAVE COMPRESSION OF TWENTY-SEVEN METALS. EQUATIONS OF STATE OF METALS.  
Phys. Rev. 108, 196-216 (1957). (LADC-2684)
- 57-189 Waterbury, Glenn R. and Bricker, Clark E.  
SEPARATION AND DETERMINATION OF MICROGRAM AMOUNTS OF MOLYBDENUM.  
Anal. Chem. 29, 129-35 (1957). (LADC-2559)
- 57-190 Waterbury, Glenn R. and Bricker, Clark E.  
SEPARATION AND DETERMINATION OF TANTALUM.  
Anal. Chem. 29, 1474-79 (1957). (LADC-2575)
- 57-191 Watson, Kenneth M.  
MULTIPLE SCATTERING BY QUANTUM-MECHANICAL SYSTEMS.  
Phys. Rev. 105, 1388-98 (1957). (LADC-2603)
- 57-192 Wiley, Richard H., Jarboe, C. Harry, Jr., and Hayes, F. Newton.  
HETEROCYCLIC ANALOGS OF TERPHENYL: 3,6-DIARYL-1,2,4,5-TETRAZINE.  
J. Org. Chem. 22, 835-6 (1957). (LADC-2604)
- 57-193 Wiley, Richard H., Jarboe, C. Harry, Jr., and Hayes, F. Newton.  
2-PYRONES. XXV. 3,6-DIARYL-2-PYRONES AS HETEROCYCLIC ANALOGS OF TERPHENYL.  
J. Am. Chem. Soc. 79, 2602-05 (1957). Also: Am. Chem. Soc., Abstracts of Papers 131, 230 (1957). (LADC-2610)
- 57-194 Wojtowicz, Peter J., Kirkwood, John G., and Salsburg, Zevi.  
THEORY OF MULTICOMPONENT FLUID MIXTURES.  
J. Chem. Phys. 26, 1533-41 (1957). (LADC-2639)



- 57-195 Wood, William W. and Kirkwood, John G.  
HYDRODYNAMICS OF A REACTING AND RELAXING FLUID.  
J. Appl. Phys. 28, 395-8 (1957). (LADC-2606)
- 57-196 Wood, William Wayne and Parker, Frederick Rollins.  
MONTE CARLO EQUATION OF STATE OF MOLECULES INTERACTING WITH  
THE LENNARD-JONES POTENTIAL. I. A SUPERCRITICAL ISOTHERM AT  
ABOUT TWICE THE CRITICAL TEMPERATURE.  
J. Chem. Phys. 27, 720-33 (1957). (LADC-2851)
- 57-197 Wood, William W. and Jacobson, Jack D.  
PRELIMINARY RESULTS FROM A RECALCULATION OF THE MONTE CARLO  
EQUATION OF STATE OF HARD SPHERES.  
J. Chem. Phys. 27, 1207-08 (1957). (LADC-2980)
- 57-198 Zachariasen, William H. and Ellinger, Finley.  
CRYSTAL STRUCTURE OF ALPHA-PLUTONIUM METAL.  
J. Chem. Phys. 27, 811-2 (1957). (LADC-5523)

- 57-1A Allen, Robert C., Jarmie, Nelson, and Brown, Ronald E.  
 $T(t, \alpha)n, n$  REACTION.  
 Bull. Am. Phys. Soc. 2, 2, 305 (1957). (LADC-2916)
- 57-2A Armstrong, Alice H. and Frye, Glenn M., Jr.  
 EVIDENCE FOR THE PRODUCTION OF A NEUTRAL PION IN AN ANTI-  
 PROTON ANNIHILATION EVENT.  
 Bull. Am. Phys. Soc. 2, 2, 379 (1957). (LADC-3097)
- 57-3A Bame, Samuel J., Jr., Haddad, Eugene, Perry, Joseph E., Jr., and  
 Smith, Ronald K.  
 MEASUREMENT OF MONOENERGETIC NEUTRON FLUXES.  
 Bull. Am. Phys. Soc. 2, 2, 309 (1957). (LADC-3320)
- 57-4A Bivins, Robert, Metropolis, Nicholas, Storm, Martin, Turkevich,  
 Anthony, Miller, J. Malcolm, and Friedlander, Gerhart.  
 NUCLEAR CASCADES. I. MECHANICS AND LOW ENERGY STUDIES.  
 Bull. Am. Phys. Soc. 2, 2, 63 (1957). (LADC-2648)
- 57-5A Boone, Irene, Strang, Verda, and Rogers, Betty.  
 EFFECT TRANSPLANTABLE AK LEUKEMIA IN IRRADIATED AND NON-  
 IRRADIATED CFW SWISS STRAIN OF MICE.  
 Proc. Am. Assoc. Cancer Res. 2, 190 (1957). (LADC-2678)
- 57-6A Boyer, Keith, Northrop, John A., and Stokes, Richard H.  
 COUNTER SYSTEM FOR IDENTIFYING MASS AND MEASURING ENERGY OF  
 CHARGED PARTICLES.  
 Bull. Am. Phys. Soc. 2, 2, 207 (1957). (LADC-2771)
- 57-7A Brolley, John E., Jr., Hall, William S., and Rosen, Louis.  
 INTERACTION OF 6-MEV DEUTERONS WITH TRITIUM AND He<sup>3</sup>.  
 Bull. Am. Phys. Soc. 2, 2, 207 (1957). (LADC-2761)
- 57-8A Bunker, Merle E., Mize, Jack P., and Starner, John W.  
 RADIATIONS OF U<sup>237</sup>.  
 Bull. Am. Phys. Soc. 2, 2, 104 (1957). (LADC-2683)

- 57-9A Chase, David M. and Wilets, Lawrence.  
EXCITATION OF NUCLEAR ROTATIONAL MOTION BY NEUTRON SCATTERING.  
Bull. Am. Phys. Soc. 2, 2, 72 (1957). (LADC-2642)
- 57-10A Clark, William D., Swinehart, Donald F., and McCoy, Raymond D.  
THERMAL DECOMPOSITION OF AZOETHANE.  
Am. Chem. Soc. Abstracts of Papers 132, 47S (1957).  
(LADC-PUB-121)
- 57-11A Coleman, James S., Asprey, Larned B., and Chisholm, Ronald C.  
ANION EXCHANGE ABSORPTION OF SEVERAL TRIVALENT METALS FROM  
AQUEOUS AMMONIUM THIOCYANATE.  
Am. Chem. Soc. Abstracts of Papers. 131, 15M (1957).  
(LADC-2700)
- 57-12A Conner, Jerry P.  
TOTAL NEUTRON CROSS SECTIONS NEAR 14.1 MEV.  
Bull. Am. Phys. Soc. 2, 2, 267 (1957). (LADC-2822).
- 57-13A Coon, James H., Davis, Roland W., Felthouser, Harry E., and  
Nicodemus, David B.  
ELASTIC SCATTERING OF 14-MEV NEUTRONS.  
Bull. Am. Phys. Soc. 2, 2, 233 (1957). (LADC-1553)
- 57-14A Day, Robert B. and Lind, David A.  
NEW TECHNIQUE FOR MEASURING GAMMA RAYS FROM NEUTRON INELASTIC  
SCATTERING.  
Bull. Am. Phys. Soc. 2, 2, 32 (1957). (LADC-2646)
- 57-15A Dreicer, Harry.  
FURTHER RESULTS ON COULOMB INTERACTIONS IN A PLASMA.  
Bull. Am. Phys. Soc. 2, 2, 85 (1957). (LADC-2560)
- 57-16A Dutli, James W. and Grimm, Donald E.  
RADIOGRAPHY OF MATERIALS USED IN THE NUCLEAR ENERGY FIELD.  
Nondestructive Testing 15, 1, 21 (1957). (LADC-2509)

- 57-17A Elliott, Dana E. and Dutli, James W.  
EVALUATION OF THE APPLICATION OF THULIUM-170 TO INDUSTRIAL RADIOGRAPHY.  
Nondestructive Testing 15, 1, 18 (1957). (LADC-2549)
- 57-18A Friedlander, Gerhart, Miller, John M., Metropolis, Nicholas C., Bivins, Robert L., Storm, Martin L., and Turkevich, Anthony.  
NUCLEAR CASCADES. II. HIGH-ENERGY RESULTS.  
Bull. Am. Phys. Soc. 2, 2, 63 (1957). (LADC-2658)
- 57-19A Giorgi, Angelo L. and Kahn, Milton.  
RADIOCHEMICAL MICROMETHOD OF MEASURING VARIATION OF DENSITY WITH TEMPERATURE OF POLONIUM AND TELLURIUM VAPOR.  
Am. Chem. Soc. Abstracts of Papers, 132, 20N (1957).  
(LADC-4097)
- 57-20A Gould, R. Gordon and Popjak, George.  
BIOSYNTHESIS OF CHOLESTEROL IN VIVO AND IN VITRO FROM DL- $\beta$ -HYDROXY- $\beta$ -METHYL- $\delta$  [2-14c] - VALEROLACTONE.  
Biochem. J. 66, 51P (1957). (LADC-NN-96)
- 57-21A Gursky, Martin L.  
STATISTICAL ANALYSIS OF THE ANISOTROPIC OSCILLATOR.  
Bull. Am. Phys. Soc. 2, 2, 49 (1957). (LADC-2641)
- 57-22A Haddad, Eugene, Perry, Joseph E., Jr., and Smith, Ronald K.  
 $B_{11}(\alpha, n)N_{14}$  REACTION.  
Bull. Am. Phys. Soc. 2, 2, 309 (1957). (LADC-2914)
- 57-23A Igo, George, Ravenhall, D. Geoffrey, Tiemann, Jerome J., Lannutti, Joseph, Goldhaber, Gerson, Goldhaber, Sulamith, and Thaler, Roy M.  
OPTICAL MODEL ANALYSIS OF  $K^+$  MESON SCATTERING.  
Bull. Am. Phys. Soc. 2, 2, 311 (1957). (LADC-NN-18)
- 57-24A Jarmie, Nelson and Allen, Robert C.  
TRITON CROSS SECTIONS.  
Bull. Am. Phys. Soc. 2, 2, 305 (1957). (LADC-2915)

- 57-25A Kloepper, Robert M., Day, Robert B., and Lind, David A.  
LIFETIMES OF THE FIRST EXCITED STATES OF  $\text{Ca}^{40}$  AND  $\text{Zr}^{90}$ .  
Bull. Am. Phys. Soc. 2, 2, 60 (1957). (LADC-2644)
- 57-26A Knight, Jere D., Smith, Ronald K., Nobles, Ralph A., and  
Warren, Buddy J.  
 $\text{U}^{238}(n,2n)\text{U}^{237}$  CROSS SECTION FROM 6 TO 10 MEV.  
Bull. Am. Phys. Soc. 2, 2, 198 (1957). (LADC-2768)
- 57-27A Levin, Jules S. and Cranberg, Lawrence.  
INELASTIC NEUTRON SCATTERING FROM HEAVY ELEMENTS.  
Bull. Am. Phys. Soc. 2, 2, 219 (1957). (LADC-2774)
- 57-28A Lind, David A., Day, Robert B., and Kloepper, Robert M.  
STUDIES OF GAMMA RAYS FROM INELASTIC NEUTRON SCATTERING.  
Bull. Am. Phys. Soc. 2, 2, 309 (1957). (LADC-2925)
- 57-29A Lushbaugh, Clarence C., Harris, Payne S., and Storer, John B.  
FATAL ADENOMATOUS LESION OF THE STOMACH OF MICE EXPOSED TO  
NEUTRONS FROM AN ATOM BOMB.  
Proc. Am. Assoc. Cancer Res. 2, 228 (1957). (LADC-2664)
- 57-30A Muller, Doris Clegg.  
USE OF THE MULTIJUNCTION THERMOCOUPLE IN THERMOMETRIC  
TITRATIONS.  
Am. Chem. Soc. Abstracts of Papers 132, 6B (1957).  
(LADC-3002)
- 57-31A Muller, Ralph H.  
INSTRUMENTAL ASPECTS OF THERMOMETRIC TITRATIONS.  
Am. Chem. Soc. Abstracts of Papers 132, 5B (1957).  
(LADC-3003)
- 57-32A Mygatt, Peter.  
DREADFUL SORRY, CLEMENTINE.  
Nucleonics 15, 9, 201 (1957). (LADC-NN-16)

- 57-33A Nicodemus, David B., Coon, James H., Davis, Roland W.,  
Felthouser, Harry E.  
INELASTIC SCATTERING OF 14.5-MEV NEUTRONS.  
Bull. Am. Phys. Soc. 2, 2, 378 (1957). (LADC-2767)
- 57-34A Nobles, Ralph, Manley, John H., and Leachman, Robert B.  
NEUTRON-INDUCED FISSION OF  $\text{Ra}^{226}$ .  
Bull. Am. Phys. Soc. 2, 2, 70 (1957). (LADC-2654)
- 57-35A Northrop, John A., Stokes, Richard H., and Boyer, Keith.  
COINCIDENCE TECHNIQUES FOR CYCLOTRON EXPERIMENTS.  
Bull. Am. Phys. Soc. 2, 2, 207 (1957). (LADC-2772)
- 57-36A Pretzel, Frank E.  
COLOR CENTERS IN LITHIUM HYDRIDE.  
Bull. Am. Phys. Soc. 2, 2, 155 (1957). (LADC-3852)
- 57-37A Putnam, Thomas M., Brolley, John E., Jr., and Rosen, Louis.  
INTERACTION OF 6-14-MEV DEUTERONS WITH DEUTERIUM.  
Bull. Am. Phys. Soc. 2, 2, 28 (1957). (LADC-2635)
- 57-38A Rosen, Louis, Brolley, John E., Jr., and Hall, W. Stanley.  
 $\text{T}(d,2n)\text{He}^3$  REACTION  
Bull. Am. Phys. Soc. 2, 2, 208 (1957). (LADC-2763)
- 57-39A Rotenberg, Manuel and Willets, Lawrence.  
VARIATIONAL WAVE FUNCTION FOR HEAVY NUCLEI.  
Bull. Am. Phys. Soc. 2, 2, 228 (1957). (LADC-2777)
- 57-40A Sattizahn, James E., Kahn, Miriam E., and Knight, Jere D.  
SHORT-LIVED BROMINE AND SELENIUM NUCLIDES FROM FISSION.  
Bull. Am. Phys. Soc. 2, 2, 197 (1957). (LADC-2750)
- 57-41A Seay, Glenn E. and Seely, Leslie B., Jr.  
ON THE  $\text{He I}$  FORBIDDEN TRANSITION (43p-23p).  
Bull. Am. Phys. Soc. 2, 2, 106 (1957). (LADC-2687)

- 57-42A Simmons, James E., Henkel Richard L., and Brolley, John E., Jr.  
ANISOTROPY OF FISSION FRAGMENTS FROM THE FAST NEUTRON BOMBARDMENT OF Pu<sup>239</sup>.  
Bull. Am. Phys. Soc. 2, 2, 308 (1957). (LADC-2917)
- 57-43A Smith, Ronald K., Henkel, Richard L., and Nobles, Ralph A.  
NEUTRON-INDUCED FISSION CROSS SECTION FOR U<sup>233</sup>, U<sup>235</sup>, U<sup>238</sup>, AND Pu<sup>239</sup> FROM 2 TO 10 MEV.  
Bull. Am. Phys. Soc. 2, 2, 196-7 (1957). (LADC-4514)
- 57-44A Stokes, Richard H., Boyer, Keith, and Northrop, John A.  
FISSION THRESHOLDS FROM (d,p) STRIPPING REACTIONS.  
Bull. Am. Phys. Soc. 2, 2, 207 (1957). (LADC-2773)
- 57-45A Taylor, R. Dean and Dash, Jay G.  
NORMAL FLUID DENSITIES OF DILUTE SOLUTIONS OF He<sup>3</sup> AND He<sup>4</sup>.  
Bull. Am. Phys. Soc. 2, 2, 138 (1957). (LADC-2713)
- 57-46A Taylor, R. Dean and Dash, Jay G.  
VISCOSITY OF LIQUID He<sup>3</sup> AND OF LIQUID He<sup>4</sup>.  
Bull. Am. Phys. Soc. 2, 2, 64 (1957). (LADC-2643)
- 57-47A Watters, James I., Lambert, Sheldon M., and Loughran, E. Dan.  
COMPLEXES OF TRIPOLYPHOSPHORIC ACID WITH ALKALI METALS.  
Am. Chem. Soc. Abstracts of Papers 131, 54R (1957).  
(LADC-NN-64)
- 57-48A Whetstone, Stanley L., Jr., Stein, William E., and Smith, H. Louise.  
PROMPT NEUTRON EMISSION FROM SPONTANEOUS FISSION MODES OF Cf<sup>252</sup>.  
Bull. Am. Phys. Soc. 2, 2, 308 (1957). (LADC-2929)
- 57-49A Wood, William W. and Kirkwood, John G.  
CHARACTERISTIC EQUATIONS FOR REACTIVE FLOW.  
J. Chem. Phys. 27, 596 (1957). (LADC-2808)
- 57-50A Young, James E.  
D-D REACTION AT LOW ENERGIES.  
Bull. Am. Phys. Soc. 2, 2, 381 (1957). (LADC-3084)

- 58-1 Allen, Robert C. and Jarmie, Nelson.  
TRITON REACTION CROSS SECTIONS.  
Phys. Rev. 111, 4, 1129-30 (1958). (LADC-2915)
- 58-2 Allen, William Douglas and Henkel, Richard L.  
FAST NEUTRON DATA ON THE ISOTOPES OF THORIUM, URANIUM AND  
PLUTONIUM.  
Progress in Nuclear Energy, Series I - Physics and  
Mathematics v.2, p. 1-50 (1958). (LADC-2729)
- 58-3 Withdrawn
- 58-4 Allred, John C. and Carter, David S.  
KINETICS OF HOMOGENEOUS POWER REACTORS OF THE LAPRE TYPE.  
Nucl. Sci. Eng. 3, 482-503 (1958). (LADC-2188)
- 58-5 Anderson, Ernest C., Schuch, Robert L., Fisher, William R., and  
Van Dilla, Marvin A.  
BARIUM-140 RADIOACTIVITY IN FOODS.  
Science 127, 283-4 (1958). (LADC-3104)
- 58-6 Anderson, Ernest C.  
LOS ALAMOS HUMAN COUNTER.  
Liquid Scintillation Counting Conference, p.211-19 (1958).  
Held at Northwestern University, Evanston, Illinois,  
August 20-22, 1957. Proceedings, Part V, Specific Appli-  
cations. (LADC-3114)



- 58-7 Anderson, Ernest C.  
 LOW-LEVEL COUNTING: FROM ARCHAEOLOGICAL ARTIFACTS TO NUCLEAR REACTORS.  
 Internazionale Congresso. Scientifico Elettronica e Nucleare, 5th, Rassegna, Italy, June 16-30, 1958. ATTI, p. 279-306. (LADC-3350)
- 58-8 Anderson, Ernest C. and Van Dilla, Marvin A.  
 LOW-LEVEL GAMMA RAY DETECTION IN HUMANS.  
 I.R.E. Trans. Nucl. Sci. 5, 194-8 (1958). (LADC-3091)
- 58-9 Anderson, Ernest C.  
 MONITORING OF FOODS.  
 Science 128, 316-7 (1958). (LADC-3488)
- 58-10 Anderson, Ernest C.  
 RADIOACTIVITY OF PEOPLE AND MILK: 1957.  
 Science 128, 882-6 (1958). (LADC-3456)
- 58-11 Anderson, Ernest C., Hayes, F. Newton, and Hiebert, Richard D.  
 WALK-IN HUMAN COUNTER.  
 Nucleonics 16, 8, 106 (1958). (LADC-3457)
- 58-12 Asprey, Larned B. and Keenan, Thomas K.  
 TETRAVALENT AMERICIUM AND CURIUM; THE ABSORPTION SPECTRA OF THE TRI- AND TETRAFLUORIDES OF THESE ELEMENTS.  
 J. Inorg. & Nucl. Chem. 7, 1/2, 27-31 (1958). (LADC-3217)
- 58-13 Baker, George A., Jr.  
 NOTE ON THE SINGLE-PARTICLE ENERGY AND THE BINDING ENERGY OF MANY-BODY, SATURATED SYSTEMS.  
 Can. J. Phys. 36, 1261-64 (1958). (LADC-3304)
- 58-14 Baker, George A., Jr.  
 STRUCTURE OF THE NUCLEAR MASS SURFACE.  
 Phys. Rev. 112, 954-9 (1958). (LADC-3469)

- 58-15 Baker, Richard D. and Leary, Joseph A.  
 RECENT DEVELOPMENTS IN PLUTONIUM PROCESSING IN THE UNITED STATES.  
 International Conference on the Peaceful Uses of Atomic Energy, 2nd, Geneva, Proceedings 17, 356-60 (1958).  
 (LADC-3376)
- 58-16 Ballard, Harold N. and Venable, Douglas.  
 SHOCK-FRONT-THICKNESS MEASUREMENTS BY AN ELECTRON BEAM TECHNIQUE.  
 Phys. Fluids 1, 3, 225-9 (1958). (LADC-3310)
- 58-17 Bame, Sam J., Jr., Haddad, Eugene, Perry, Joseph E., Jr., and Smith, Ronald K.  
 MEASUREMENT OF MONOENERGETIC NEUTRON YIELDS WITH A SIMPLIFIED TELESCOPE.  
 Rev. Sci. Instr. 29, 7, 652-3 (1958). (LADC-3320)
- 58-18 Bauer, Simon H., Schott, Garry L., and Duff, Russell E.  
 KINETIC STUDIES OF HYDROXYL RADICALS IN SHOCK WAVES. I.  
 DECOMPOSITION OF WATER BETWEEN 2400° AND 3200°K.  
 J. Chem. Phys. 28, 6, 1089-96 (1958). (LADC-3229)
- 58-19 Bellman, Richard, Cherry, Ivan J., and Wing, G. Milton.  
 NOTE ON THE NUMERICAL INTEGRATION OF A CLASS OF NON-LINEAR HYPERBOLIC EQUATIONS.  
 Quart. Appl. Math. 16, 2, 181-3 (1958). (LADC-2833)
- 58-20 Bellman, Richard, Kalaba, Robert, and Wing, G. Milton.  
 ON THE PRINCIPLE OF INVARIANT IMBEDDING AND NEUTRON TRANSPORT THEORY I-ONE-DIMENSIONAL CASE.  
 J. Math. Mech. 7, 2, 149-62 (1958). (LADC-2979)
- 58-21 Bellman, Richard, Kalaba, Robert, and Wing, G. Milton.  
 INVARIANT IMBEDDING AND NEUTRON TRANSPORT THEORY II - FUNCTIONAL EQUATIONS.  
 J. Math. Mech. 7, 5, 741-56 (1958). (LADC-3266)

- 58-22 Bendt, Philip J.  
 $\text{He}^3$  -  $\text{He}^4$  GAS DIFFUSION COEFFICIENT.  
 Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison,  
 Wisconsin, 1957, 183-86 (1958). (LADC-2907)
- 58-23 Bendt, Philip J.  
 MEASUREMENTS OF  $\text{He}^3$ - $\text{He}^4$  AND  $\text{H}_2$ - $\text{D}_2$  GAS DIFFUSION COEFFICIENTS.  
 Phys. Rev. 110, 1, 85-9 (1958). (LADC-3167)
- 58-24 Bendt, Philip J. and Peterson, Rolf E.  
 NEUTRON MULTIPLICATION IN SMALL SPHERES OF FISSIONABLE  
 MATERIAL.  
 J. Appl. Phys. 29, 9, 1271-77 (1958). (LADC-3022)
- 58-25 Bendt, Philip J., Karr, Hugh J., and Scott, F. Robert.  
 PROMPT NEUTRON PERIODS OF A CRITICAL ASSEMBLY MEASURED WITH  
 A PULSED SOURCE.  
 Nucl. Sci. Eng. 4, 703-8 (1958). (LADC-3391)
- 58-26 Bergstresser, Karl S.  
 SPECTROPHOTOMETRIC DETERMINATION OF LANTHANUM IN PLUTONIUM.  
 Anal. Chem. 30, 1630-32 (1958). (LADC-3145)
- 58-27 Bernstein, Jeremy and Johnson, Kenneth A.  
 DECAY OF THE NEUTRAL  $\pi$  MESON.  
 Phys. Rev. 109, 1, 189-92 (1958). (LADC-3011)
- 58-28 Blumberg, Sydel and Porter, Charles E.  
 NUCLEAR FINE STRUCTURE WIDTHS AND SPACINGS.  
 Phys. Rev. 110, 3, 786-7 (1958). (LADC-3285)
- 58-29 Boone, Irene U., Strang, Verda G., and Langham, Wright H.  
 CHEMOTHERAPY SCREENING TESTS OF QUATERNARY SALTS ON THREE  
 MOUSE TUMORS.  
 Cancer Res., Suppl. 18, 2, 361-3 (1958). (LADC-2544)
- 58-30 Boone, Irene U., Rogers, Betty S., and Harris, Payne S.  
 STUDIES WITH TRANSPLANTABLE  $\text{AK}_4$  MOUSE LEUKEMIA. III. EFFECT  
 OF SPLEEN AND MARROW SHIELDING ON  $\text{AK}_4$ .  
 J. Nat. Cancer Inst. 21, 513-22 (1958). (LADC-3256)

- 58-31 Boone, Irene U., Rogers, Betty S., White, D. C., and Harris, Payne S.  
TOXICITY, EXCRETION AND TISSUE DISTRIBUTION OF IONIUM  
(Th230) IN RATS.  
Am. Ind. Hyg. Assoc. J. 19, 4, 285-95 (1958). (LADC-3204)
- 58-32 Bradbury, Norris E., Schreiber, Raemer, and Ulam, Stanislaw.  
(TESTIMONY)  
Hearings before Subcommittees of the Joint Committee on  
Atomic Energy, Eighty-Fifth Congress, Second Session on outer  
space propulsion by nuclear energy. (LADC-NN-220)
- 58-33 Briscoe, William L.  
ELECTRONIC COMPUTER FOR MASS IDENTIFICATION OF PARTICLES.  
Rev. Sci. Instr. 29, 5, 401-4 (1958). (LADC-3176)
- 58-34 Brolley, John E., Jr., Hall, W. Stanley, Rosen, Louis, and  
Stewart, Leona.  
EXPERIMENTAL EVIDENCE FOR THE REACTION  $d+T \rightarrow He^3+n+n-3$  MEV.  
Phys. Rev. 109, 4, 1277-79 (1958). (LADC-3096)
- 58-35 Brueckner, Keith A. and Gammel, John L.  
PROPERTIES OF LIQUID  $He^3$  AT LOW TEMPERATURE.  
Phys. Rev. 109, 1040-46 (1958). (LADC-2937)
- 58-36 Brueckner, Keith A. and Gammel, John L.  
PROPERTIES OF NUCLEAR MATTER.  
Phys. Rev. 109, 1023-39 (1958). (LADC-2924)
- 58-37 Brueckner, Keith A., Gammel, John L., and Weitzner, Harold.  
THEORY OF FINITE NUCLEI.  
Phys. Rev. 110, 431-45 (1958). (LADC-NN-87)
- 58-38 Bubernak, Joseph, Lew, Marion S., and Matlack, George M.  
DETERMINATION OF AMERICIUM IN PLUTONIUM BY GAMMA COUNTING.  
Anal. Chem. 30, 11, 1759-62 (1958). (LADC-3207)
- 58-39 Burkhardt, Louis C., Lovberg, Ralph H., and Phillips, James A.  
MAGNETIC MEASUREMENT OF PLASMA CONFINEMENT IN A PARTIALLY  
STABILIZED LINEAR PINCH.  
Nature 181, 224-5 (1958). (LADC-3250)

- 58-40 Burkhardt, Louis C. and Lovberg, Ralph H.  
NEW CONFINEMENT PHENOMENA AND NEUTRON PRODUCTION IN A LINEAR STABILIZED PINCH.  
Nature 181, 228-30 (1958). (LADC-3248)
- 58-41 Burkhardt, Louis C., Lovberg, Ralph H., Sawyer, George A., and Stratton, Thomas F.  
STABILITY STUDIES WITH LONGITUDINAL MAGNETIC FIELD ON A STRAIGHT PINCHED DISCHARGE.  
J. Appl. Phys. 29, 6, 964-7 (1958). (LADC-3173)
- 58-42 Bussard, Robert W. and DeLauer, Richard D.  
BEYOND TOMORROW (Based in large part on Chap. 9 of their book entitled: NUCLEAR ROCKET PROPULSION).  
Nucleonics 16, 7, 73-5 (1958). (LADC-2462)
- 58-43 Bussard, Robert W.  
CONCEPTS FOR FUTURE NUCLEAR ROCKET PROPULSION.  
Jet Propulsion 223-7 (April 1958). (LADC-3019)
- 58-44 Bussard, Robert W. and DeLauer, Richard D.  
Nuclear Rocket Propulsion (McGraw-Hill Book Co., New York) (1958). (LADC-5130)
- 58-45 Callihan, Dixon, Chastain, Joel, Edlund, Milton E., Linenberger, Gustave A., Noakes, John, Paxton, Hugh C., Redman, William C., Williams, David V., and Zimmerman, Roy.  
CRITICAL FACILITIES TOMORROW (Part 3 of: THE ROLE OF CRITICAL FACILITIES).  
Nucleonics 16, 12, 43 (1958). (LADC-NN-77)
- 58-46 Carnall, William T., Fields, Paul R., Stewart, Donald C., and Keenan, Thomas K.  
ABSORPTION SPECTRUM OF AQUEOUS CURIUM (III).  
J. Inorg. & Nucl. Chem. 6, 213-6 (1958). (LADC-3056)
- 58-47 Carter, David S.  
L'HOSPITAL'S RULE FOR COMPLEX-VALUED FUNCTIONS.  
Am. Math. Month. 65, 264-6 (1958). (LADC-2816)

- 58-48 Chandrasekhar, Subrahmanyan, Kaufman, Allan N., and Watson, Kenneth M.  
 STABILITY OF THE PINCH.  
 Proc. Roy. Soc. (London) 245A, 435-55 (1958). (LADC-3007)
- 58-49 Chase, David M., Wilets, Lawrence, and Edmonds, A. R.  
 ROTATIONAL-OPTICAL MODEL FOR SCATTERING OF NEUTRONS.  
 Phys. Rev. 110, 5, 1080-92 (1958). (LADC-2642)
- 58-50 Christenson, Conard W., Fowler, Eric B., Johnson, George L., Rex, Elgin H., and Vigil, Felix A.  
 SOIL ADSORPTION OF RADIOACTIVE WASTES AT LOS ALAMOS.  
 Sewage Ind. Wastes 30, 1478-89 (1958). (LADC-3236)
- 58-51 Coffin, Don O.  
 HIGH-PRESSURE GAS-TO-LIQUID TRANSDUCER.  
 Rev. Sci. Instr. 29, 10, 896 (1958). (LADC-3446)
- 58-52 Coffinberry, Arthur S., Schonfeld, Fred W., Cramer, Eugene M., Miner, William N., Ellinger, Finley H., Elliott, Robert O., and Struebing, Vernon O.  
 PHYSICAL METALLURGY OF PLUTONIUM AND ITS ALLOYS.  
 International Conference on the Peaceful Uses of Atomic Energy, 2nd, Geneva. Proceedings 6, 681-5 (1958).  
 (LADC-3220)
- 58-53 Conner, Jerry P., Hagerman, Donald C., Honsaker, John L., Karr, Hugh J., Mize, Jack P., Osher, John E., Phillips, James A., and Stovall, Emory J., Jr.  
 OPERATIONAL CHARACTERISTICS OF THE STABILIZED TOROIDAL PINCH MACHINE, PERHAPSATRON S-4.  
 International Conference on the Peaceful Uses of Atomic Energy, 2nd, Geneva. Proceedings 32, 297-307 (1958).  
 (LADC-3399)
- 58-54 Conner, Jerry P.  
 TOTAL NEUTRON CROSS SECTIONS NEAR 14.1 MEV.  
 Phys. Rev. 109, 4, 1268-72 (1958). (LADC-2822)

- 58-55 Coon, James H., Davis, Roland William, Felthouser, Harry E.,  
and Nicodemus, David B.  
SCATTERING OF 14.5-MEV NEUTRONS BY COMPLEX NUCLEI.  
Phys. Rev. 111, 1, 250-60 (1958). (LADC-2767)
- 58-56 Cowan, George A. and Orth, Charles J.  
DIFFUSION OF FISSION PRODUCTS AT HIGH TEMPERATURE FROM  
REFRACTORY MATRICES.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 7, 328-34 (1958).  
(LADC-3191)
- 58-57 Cowan, Robert D.  
PROPERTIES OF THE HUGONIOT FUNCTION.  
J. Fluid Mech. 3, 5, 531-45 (1958). (LADC-1452)
- 58-58 Cowan, Robert D. and Kirkwood, John G.  
QUANTUM STATISTICAL THEORY OF ELECTRON CORRELATION.  
Phys. Rev. 111, 1460-66 (1958). (LADC-3131)
- 58-59 Cowan, Robert D. and Kirkwood, John G.  
QUANTUM STATISTICAL THEORY OF PLASMAS AND LIQUID METALS.  
J. Chem. Phys. 29, 2, 264-71 (1958). (LADC-3241)
- 58-60 Cramer, Eugene M. and Schonfeld, Fred W.  
TECHNIQUES FOR THE METALLOGRAPHY OF PLUTONIUM.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 17, 668-75 (1958).  
(LADC-3221)
- 58-61 Cranberg, Lawrence and Levin, Jules S.  
INELASTIC NEUTRON SCATTERING BY  $U^{238}$ .  
Phys. Rev. 109, 6, 2063-70 (1958). (LADC-2848)
- 58-62 Cranston, Frederick P., Jr., Bunker, Merle E., and Starner,  
John W.  
DECAY OF  $Er^{171}$ .  
Phys. Rev. 110, 6, 1427-38 (1958). (LADC-2595)

- 58-63 Crawford, Crayton M.  
 INEXPENSIVE, NON-CLOGGING, NON-FREEZING BURET VALVE.  
 J. Chem. Educ. 35, 380 (1958). (LADC-3261)
- 58-64 Dash, Jay G. and Taylor, R. Dean.  
 INFLUENCE OF  $^3\text{He}$  ON SOME FLOW PROPERTIES OF BULK He II.  
 Nuovo Cimento, Series 10, 2, Suppl. 1, 334-40 (1958).  
 (LADC-2922)
- 58-65 Dash, Jay G. and Taylor, R. Dean.  
 NORMAL FLUID DENSITY AND VISCOSITY OF  $\text{He}^3\text{-He}^4$ .  
 Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison,  
 Wisconsin, 1957, 161-4 (1958). (LADC-2913)
- 58-66 Day, Robert.  
 NOVYI METOD IZMERENIIA  $\gamma$ -IZLUCHENIIA VOZNIKAIUSHCHEGO PRI  
 NEUPUGOM RASSEIANII NEITRONOV.  
 Akad. Nauk SSSR, Otd. Fiz.-Mat. Nauk, Vses. Konf. po  
 Iadernym Reaktsii Pri Mal'yx i Srednikh Energ. Tr., 1957,  
 149-57 (1958). (LADC-NN-107)
- 58-67 Deal, William E.  
 MEASUREMENT OF THE REFLECTED SHOCK HUGONIOT AND ISENTROPE  
 FOR EXPLOSIVE REACTION PRODUCTS.  
 Phys. Fluids 1, 523-7 (1958). (LADC-2986)
- 58-68 Diven, Ben C., Hemmendinger, Arthur, and Terrell, James.  
 CAPTURE-TO-FISSION RATIOS FOR FAST NEUTRONS IN  $\text{U}^{235}$ .  
 Phys. Rev. 109, 1, 144-50 (1958). (LADC-2815)
- 58-69 Driesner, Allen R. and Wagner, Paul.  
 FRICTION COEFFICIENTS OF GRAPHITE OVER THE TEMPERATURE  
 INTERVAL  $25^\circ\text{C}$  TO  $2450^\circ\text{C}$ .  
 J. Appl. Phys. 29, 6, 901-3 (1958). (LADC-2940)
- 58-70 Duff, Russell E.  
 CALCULATION OF REACTION PROFILES BEHIND STEADY-STATE SHOCK  
 WAVES. I. APPLICATION TO DETONATION WAVES.  
 J. Chem. Phys. 28, 6, 1193-97 (1958). (LADC-3230)



- 58-71 Duff, Russell E. and Knight, Herbert T.  
 FURTHER COMMENTS ON THE LETTER OF FAY AND OPEL.  
 J. Chem. Phys. 29, 956-7 (1958). (LADC-3490)
- 58-72 Duff, Russell E.  
 LAMINAR BOUNDARY LAYER DEVELOPMENT BEHIND SHOCK WAVES IN ARGON.  
 Phys. Fluids 1, 546-7 (1958). (LADC-3541)
- 58-73 Duff, Russell E., Knight, Herbert T., and Rink, John P.  
 PRECISION FLASH X-RAY DETERMINATION OF DENSITY RATIO IN GASEOUS DETONATIONS.  
 Phys. Fluids 1, 393-8 (1958). (LADC-3485)
- 58-74 Duff, Russell E.  
 RELAXATION TIME FOR REACTIONS BEHIND SHOCK WAVES AND SHOCK WAVE PROFILES.  
 Phys. Fluids 1, 3, 242-5 (1958). (LADC-3069)
- 58-75 Dmaway, Robert E. and Phillips, James A.  
 NEUTRON GENERATION FROM STRAIGHT PINCHES.  
 J. Appl. Phys. 29, 8, 1137-43 (1958). Also: Bull. Am. Phys. Soc., 2, 3, 85 (1958). (LADC-2943)
- 58-76 Dutli, James W. and Grimm, Donald E.  
 RADIOGRAPHY OF MATERIALS USED IN THE NUCLEAR ENERGY FIELD.  
 Am. Soc. Testing Materials. Spec. Tech. Publ. No. 223, 150-64 (1958). (LADC-2509)
- 58-77 Edeskuty, Frederick J. and Chrisman, Robert H.  
 ELECTRICAL LEAD-IN FOR PRESSURE VESSEL.  
 Rev. Sci. Instr. 29, 2, 178 (1958). (LADC-3111)
- 58-78 Edeskuty, Frederick J. and Sherman, Robert H.  
 P-V-T RELATIONS IN LIQUID He<sup>3</sup> AND He<sup>4</sup>.  
 Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison, Wisconsin, 1957. 102-06 (1958). (LADC-2931)

- 58-79 Edwards, Paul D.  
 APPROACH TO VERSATILITY IN EDDY CURRENT TESTING.  
 Am. Soc. Testing Materials. Spec. Tech. Publ. No. 223,  
 142-9 (1958). (LADC-2508)
- 58-80 Elliott, Dana E. and Tenney, Gerold H.  
 RADIOGRAPHY AND AUTORADIOGRAPHY OF PLUTONIUM.  
 Nondestructive Testing 16, 430-7 (1958). (LADC-2963)
- 58-81 Elliott, Reed O. and Kempter, Charles P.  
 THERMAL EXPANSION OF SOME TRANSITION METAL CARBIDES.  
 J. Phys. Chem. 62, 630-1 (1958). (LADC-3170)
- 58-82 Elmore, William C., Little, Edward M., and Quinn, Warren E.  
 NEUTRONS OF POSSIBLE THERMONUCLEAR ORIGIN.  
 Phys. Rev. Letters 1, 1, 32 (1958). LADC-3398)
- 58-83 Evans, Martha W. and Harlow, Francis H.  
 CALCULATION OF SUPERSONIC FLOW PAST AN AXIALLY-SYMMETRIC  
 CYLINDER.  
 J. Aeronaut. Sci. 25, 4, 269-70 (1958). (LADC-3168)
- 58-84 Fickett, Wildon and Wood, William Wayne.  
 DETONATION-PRODUCT EQUATION OF STATE OBTAINED FROM HYDRO-  
 DYNAMIC DATA.  
 Phys. Fluids 1, 528-34 (1958). (LADC-3497)
- 58-85 Finkelstein, David, Sawyer, George A., and Stratton, Thomas F.  
 SUPERSONIC MOTION OF VACUUM SPARK PLASMAS ALONG MAGNETIC  
 FIELDS.  
 Phys. Fluids 1, 3, 188-92 (1958). (LADC-2846)
- 58-86 Foreman, Harry, Moss, William, and Eutsler, Bernard C.  
 CLINICAL EXPERIENCES WITH RADIOACTIVE MATERIALS.  
 Am. J. Roentgenol., Radium Therapy Nucl. Med. 79, 6,  
 1071-79 (1958). (LADC-2856)

- 58-87 Foreman, Harry I.  
TOXICOLOGY OF RADIOACTIVE MATERIALS.  
Ann. Rev. Med. 9, 369-86 (1958). (LADC-3058)
- 58-88 Friedman, Harold L. and Zeltmann, Alfred H.  
HYDROGEN CONVERSION AND EXCHANGE REACTIONS IN AQUEOUS SOLUTIONS INDUCED BY GAMMA RAYS.  
J. Chem. Phys. 28, 5, 878-90 (1958). (LADC-2274)
- 58-89 Frye, Glenn M., Jr.  
ANTI-PROTON ANNIHILATION INTO NATURAL PIONS.  
Phys. Rev. Letters 1, 1, 14 (1958). (LADC-3270)
- 58-90 Frye, Glenn M., Jr., and Armstrong, Alice H.  
EVIDENCE FOR THE PRODUCTION OF A NEUTRAL PION IN AN ANTI-PROTON ANNIHILATION EVENT.  
Phys. Rev. 110, 1, 170-2 (1958). (LADC-3097)
- 58-91 Gammel, John L. and Thaler, Roy M.  
PHASE SHIFTS FOR  $p$ - $\alpha$  SCATTERING AND POLARIZATION IN  $p$ - $\alpha$  SCATTERING FOR PROTON LABORATORY ENERGIES FROM 0 TO 40 MEV.  
Phys. Rev. 109, 6, 2041-47 (1958). (LADC-3157)
- 58-92 Gilman, Henry, Weipert, Eugene A., and Hayes, F. Newton.  
SOME DERIVATIVE OF BIPHENYL AS LIQUID SCINTILLATOR SOLUTES.  
J. Org. Chem. 23, 910-1 (1958). (LADC-NN-31)
- 58-93 Gilman, Henry, Weipert, Eugene A., Ranck, Ralph O., and Hayes, F. Newton.  
SOME N-ARYLATED HETEROCYCLES AS LIQUID SCINTILLATOR SOLUTES.  
J. Org. Chem. 23, 628-9 (1958). (LADC-NN-28)
- 58-94 Gilman, Henry, Weipert, Eugene A., Dietrich, Joseph J., and Hayes, F. Newton.  
SOME OXYGEN CONTAINING HETEROCYCLES AS LIQUID SCINTILLATOR SOLUTES.  
J. Org. Chem. 23, 361-2 (1958). (LADC-NN-29)

- 58-95 Gilman, Henry, Weipert, Eugene A., and Hayes, F. Newton.  
SOME POLYARYL DERIVATIVES OF METALS AND METALLOIDS AS LIQUID  
SCINTILLATOR SOLUTES.  
J. Org. Chem. 23, 760-2 (1958). (LADC-NN-27)
- 58-96 Glass, Neel W. and Rudnick, Paul.  
HIGH CURRENT COAXIAL PHOTOMULTIPLIER.  
I.R.E. Trans. Nucl. Sci. 5, 124-6 (1958). (LADC-3140)
- 58-97 Goldstein, Louis.  
ON THE PHASE TRANSFORMATIONS OF LIQUID He<sup>4</sup>.  
Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison,  
Wisconsin, 1957, 126-28 (1958). (LADC-2882)
- 58-98 Goldstein, Louis.  
THERMAL EXCITATION IN LIQUID He<sup>3</sup>.  
Phys. Rev. 112, 1465-82 (1958). (LADC-3334)
- 58-99 Goldstein, Louis.  
VOLUME ANOMALY OF LIQUID He<sup>3</sup> ARISING FROM ITS NUCLEAR SPIN  
SYSTEM.  
Phys. Rev. 112, 1483-87 (1958). (LADC-3431)
- 58-100 Goldstein, Max T. and Thaler, Roy M.  
BESSEL FUNCTIONS FOR LARGE ARGUMENTS.  
Math. Tables Aids Comput. 12, 61, 18-26 (1958).  
(LADC-2872)
- 58-101 Gould, R. Gordon  
BIOSYNTHESIS OF CHOLESTEROL.  
Cholesterol, Cook, R. P. (ed) (Academic Press, New York),  
Chap. 6, p. 210-36 (1958). (LADC-3213)
- 58-102 Gould, R. Gordon and Cook, R. P.  
THE METABOLISM OF CHOLESTEROL AND OTHER STEROLS IN THE  
ANIMAL ORGANISM.  
Cholesterol, Cook, R. P. (ed) (Academic Press, New York),  
Chap. 7, p. 237-308 (1958). (LADC-3213)

- 58-103 Green, Alex E. S.  
NUCLEAR SIZES AND THE WEISZACKER MASS FORMULA.  
Rev. Modern Phys. 30, 2, 569-84 (1958). (LADC-3219)
- 58-104 Green, Alex E. S. and Sood, P. C.  
PROTON POTENTIAL ANOMALY AND NONLOCAL POTENTIALS.  
Phys. Rev. 111, 4, 1147-54 (1958). (LADC-3367)
- 58-105 Grover, George M., Roehling, Duane J., Salmi, Ernest W., and Pidd, Robert W.  
PROPERTIES OF A THERMOELECTRIC CELL.  
J. Appl. Phys. 29, 1611-12 (1958). (LADC-3450)
- 58-106 Grundl, James A., Henkel, Richard L., and Perkins, Betty L.  
 $P^{31}(n,p)Si^{31}$  AND  $Al^{27}(n,a)Na^{24}$  CROSS SECTIONS.  
Phys. Rev. 109, 2, 425-8 (1958). (LADC-3018)
- 58-107 Hagerman, Donald C. and Mather, Joseph W.  
NEUTRON PRODUCTION IN A HIGH-POWER PINCH APPARATUS.  
Nature 181, 226-8 (1958). (LADC-3247)
- 58-108 Hammel, Edward F., Sherman, Robert H., Kilpatrick, John E., and Edeskuty, Frederick J.  
ENTROPY-TEMPERATURE PHASE DIAGRAM FOR  $^3He$ .  
Physica 24, Suppl., S1-8 (1958). (LADC-3341)
- 58-109 Hammel, Edward F. and Schuch, Adam F.  
ON THE LOW TEMPERATURE FLOW OF  $He^+$  THROUGH NARROW CHANNELS.  
Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison, Wisconsin, 1957, 23-26 (1958). (LADC-2934)
- 58-110 Hammel, Edward F.  
VAPOR PRESSURE OF CURVED SURFACES.  
J. Chem. Educ. 35, 28-9 (1958). (LADC-2898)
- 58-111 Hanks, Gale S., Taub, James M., and Brundige, Edward L.  
SUBMERGED-ARC WELDING OF URANIUM.  
Welding J. 890-6 (Sept. 1958). (LADC-2948)

- 58-112 Hansen, Gordon E.  
PROPERTIES OF ELEMENTARY FAST-NEUTRON CRITICAL ASSEMBLIES.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 12, 84-8 (1958).  
(LADC-3198)
- 58-113 Harrison, Francis B.  
LIQUID SCINTILLATION COUNTERS AND THEIR APPLICATIONS TO  
PHYSICS.  
Liquid Scintillation Counting Conf. 150-56 (1958).  
(LADC-2977)
- 58-114 Hayes, F. Newton.  
APPLICATIONS OF LIQUID SCINTILLATION COUNTERS.  
I.R.E. Trans. Nucl. Sci. 5, 166-70 (1958). (LADC-3099)
- 58-115 Hayes, F. Newton.  
FIRST PART OF ROUND-TABLE ON "CHEMISTRY OF THE COUNTING  
SAMPLE".  
Liquid Scintillation Counting Conf., 83-7 (1958).  
(LADC-2966b)
- 58-116 Hemmendinger, Arthur.  
FISSION CROSS SECTIONS AT MEV EXCITATION.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 15, 344-52 (1958).  
(LADC-3348)
- 58-117 Hiebert, Richard D. and Hayes, F. Newton.  
INSTRUMENTATION FOR LIQUID SCINTILLATION COUNTING AT LOS  
ALAMOS.  
Liquid Scintillation Counting Conf., 41-9 (1958).  
(LADC-2966a)
- 58-118 Hoerlin, Herman.  
PHOTOGRAPHIC MATERIALS FOR NUCLEAR LABORATORY AND TEST WORK.  
Wissenschaftliche Photographie, p. 312-18 (1958).  
International Conference of Scientific Photography,  
Cologne, Sept. 24-27, 1956. (LADC-2393)

- 58-119 Hoffman, Darleane C. and Dropecky, Bruce J.  
ELECTRON-CAPTURE DECAY OF  $\text{Pu}^{237}$ .  
Phys. Rev. 109, 4, 1282-90 (1958). (LADC-2997)
- 58-120 Holladay, John.  
MATRIX NIM.  
Am. Math. Month. 65, 2, 107-9 (1958). (LADC-2583)
- 58-121 Holladay, John C. and Varga, Richard S.  
ON POWERS OF NON-NEGATIVE MATRICES.  
Am. Math. Soc. Proc. 9, 4, 631-4 (1958). (LADC-3165)
- 58-122 Holladay, John C.  
ON THE IDENTITY OF FUNCTION SPACES ON CARTESIAN PRODUCT SPACES.  
Am. Math. Soc. Proc. 9, 1, 44-6 (1958). (LADC-2582)
- 58-123 Holland, Thomas E. and Davis, William C.  
EFFECTS OF ELASTIC DISTORTION OF ROTATING MIRRORS ON TIME RESOLUTION IN SMEAR CAMERAS.  
J. Optical Soc. Am. 48, 6, 365-71 (1958). (LADC-3228)
- 58-124 Holley, Charles E., Jr., Mulford, Robert N. R., Huber, Elmer J., Jr., Head, Earl L., Ellinger, Finley H., and Bjorklund, Carl W.  
THERMODYNAMICS AND PHASE RELATIONSHIPS FOR PLUTONIUM OXIDES.  
International Conference on the Peaceful Uses of Atomic Energy, 2nd, Geneva. Proceedings 6, 215-20 (1958).  
(LADC-3332)
- 58-125 Honsaker, John L., Karr, Hugh J., Osher, John E., Phillips, James A., and Tuck, James L.  
NEUTRONS FROM A STABILIZED TOROIDAL PINCH.  
Nature 181, 231-33 (1958). (LADC-3249)
- 58-126 Hughes, Darrell S. and McQueen, Robert G.  
DENSITY OF BASIC ROCKS AT VERY HIGH PRESSURES.  
Trans. Am. Geophys. Union 39, 5, 959-65 (1958).  
(LADC-2316)

- 58-127 Hyatt, Edwin C.  
CURRENT PROBLEMS IN THE FIELD OF RESPIRATORY PROTECTION.  
Am. Ind. Hyg. Assoc. J. 19, 2, 121-2 (1958). (LADC-2844)
- 58-128 Ibers, James A. and Cromer Don T.  
THE LEAST-SQUARES REFINEMENT OF THE CRYSTAL STRUCTURE OF  
 $Ce(IO_3)_4 \cdot H_2O$  CERIC IODATE MONOHYDRATE.  
Acta Cryst. 11, 794-8 (1958). (LADC-2731)
- 58-129 Igo, George.  
OPTICAL MODEL POTENTIAL AT THE NUCLEAR SURFACE FOR THE  
ELASTIC SCATTERING OF ALPHA PARTICLES.  
Phys. Rev. Letters 1, 2, 167 (1958). (LADC-3447)
- 58-130 Igo, George, Ravenhall, D. Geoffrey, Tiemann, Jerome J.,  
Chupp, Warren W., Goldhaber, Gerson, Goldhaber, Sulamith,  
Lannutti, Joseph, and Thaler, Roy M  
SCATTERING OF  $K^+$  MESONS IN EMULSION.  
Phys. Rev. 109, 2133-40 (1958). (LADC-NN-17)
- 58-131 Jarmie, Nelson and Allen, Robert C.  
 $T(t, \alpha)_{n,n}$  REACTION.  
Phys. Rev. 111, 1121-28 (1958). (LADC-2916)
- 58-132 Jones, Llewellyn H. and McLaren, Eugene.  
INFRARED ABSORPTION SPECTRA OF  $SO_2$  AND  $CO_2$  IN AQUEOUS  
SOLUTION.  
J. Chem. Phys. 28, 995 (1958). (LADC-3112)
- 58-133 Jones, Llewellyn H. and Goldblatt, Maxwell.  
INFRARED SPECTRUM AND MOLECULAR CONSTANTS OF  $CH_4$ .  
J. Mol. Spectr. 2, 103-12 (1958). (LADC-3126)
- 58-134 Jones, Llewellyn H.  
POLARIZED INFRARED SPECTRUM OF POTASSIUM THIOCYANATE.  
J. Chem. Phys. 28, 1234-36 (1958). (LADC-3175)



- 58-135 Jones, Llewellyn H.  
SYSTEMATICS IN THE VIBRATIONAL SPECTRA OF URANYL COMPLEXES.  
Spectrochim. Acta 10, 395-403 (1958). (LADC-2969)
- 58-136 Jones, Llewellyn H.  
VIBRATIONAL SPECTRUM AND STRUCTURE OF METAL-CYANIDE COMPLEXES  
IN THE SOLID STATE. IV.  $K_2Cu(CN)_4$ .  
J. Chem. Phys. 29, 463-67 (1958). (LADC-3349)
- 58-137 Jones, Llewellyn H.  
VIBRATIONAL SPECTRUM OF NICKEL CARBONYL.  
J. Chem. Phys. 28, 1215-19 (1958). (LADC-3245)
- 58-138 Jordan, Harry S. and Black, Ralph E.  
EVALUATION OF THE AIR POLLUTION PROBLEM RESULTING FROM  
DISCHARGE OF A RADIOACTIVE EFFLUENT.  
Am. Ind. Hyg. Assoc. J. 19, 20-5 (1958). (LADC-2619)
- 58-139 Jordan, Harry S.  
RESPIRATOR PROBLEM - AN INDUSTRIAL HYGIENIST'S VIEWPOINT.  
Am. Ind. Hyg. Assoc. J. 19, 149-53 (1958). (LADC-2749)
- 58-140 Josephson, Vernal.  
PRODUCTION OF HIGH-VELOCITY SHOCKS.  
J. Appl. Phys. 29, 30-2 (1958). (LADC-2835)
- 58-141 Keepin, George R.  
INTERPRETATION OF DELAYED NEUTRON PHENOMENA.  
J. Nucl. Energy 7, 13-34 (1958). Also: Soviet J. At.  
Energy (English Trans.) 4, 339-59 (1958). Also: Atomnaya  
Energia 4, 250-70 (1958). (LADC-2923)
- 58-142 Keepin, G. Robert and Wimett, Thomas F.  
REACTOR KINETIC FUNCTIONS: A NEW EVALUATION.  
Nucleonics 16, 10, 86-90 (1958). (LADC-3224)

- 58-143 Keller, William E., Sommers, Henry S., Jr., and Dash, Jay G.  
SIMPLE He II HEAT SWITCH.  
Rev. Sci. Instr. 29, 530 (1958). (LADC-3235)
- 58-144 Kerr, Eugene C.  
MOLAR VOLUMES OF THE He<sup>3</sup> - He<sup>4</sup> MIXTURES.  
Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison,  
Wisconsin, 1957, 158-61 (1958). (LADC-2920)
- 58-145 Klehn, Robert M.  
SOME APPLICATIONS OF THE Sn METHOD.  
Nucl. Sci. Eng. 4, 166-79 (1958). (LADC-2813)
- 58-146 Kissinger, Leonard W. and Ungnade, Herbert E.  
ACTION OF NITROSYL CHLORIDE ON OXIMINO ESTERS.  
J. Org. Chem. 23, 1517-18 (1958). (LADC-3342)
- 58-147 Kissinger, Leonard W. and Ungnade, Herbert E.  
DERIVATIVES OF NITROMETHYLAMINE. II. NITROMETHYL IMIDES.  
J. Org. Chem. 23, 815-8 (1958). Also: Am. Chem. Soc.  
Abstracts of Papers 133, 96N (1958). (LADC-3205)
- 58-148 Kissinger, Leonard W. and Ungnade, Herbert E.  
GEM-DINITRO ESTERS. II. PREPARATION AND PROPERTIES OF ALPHA,  
ALPHA-DINITRO ESTERS.  
J. Org. Chem. 23, 1340-42 (1958). (LADC-3088)
- 58-149 Kissinger, Leonard W. and Schwartz, Mortimer.  
SOME MICHAEL-LIKE ADDITIONS OF PRIMARY NITRAMINES.  
J. Org. Chem. 23, 1342-44 (1958). (LADC-3086)
- 58-150 Knight, Herbert T. and Venable, Douglas.  
APPARATUS FOR PRECISION FLASH RADIOGRAPHY OF SHOCK AND  
DETONATION WAVES IN GASES.  
Rev. Sci. Instr. 29, 92-8 (1958). (LADC-3106)

- 58-151 Knight, Herbert T. and Rink, John P.  
HEAT OF SUBLIMATION OF CARBON AND THE DISSOCIATION ENERGY  
OF CO BY X-RAY DENSITOMETRY OF SHOCK WAVES.  
J. Chem. Phys. 29, 449-50 (1958). (LADC-3386)
- 58-152 Knight, Herbert T.  
PIEZOELECTRIC DETECTOR FOR LOW-PRESSURE SHOCK WAVES.  
Rev. Sci. Instr. 29, 174-5 (1958). (LADC-2956)
- 58-153 Knight, Jere D., Smith, Ronald K., and Warren, Buddy J.  
 $U^{238}(n,2n)U^{237}$  CROSS SECTIONS FROM 6 TO 10 MEV.  
Phys. Rev. 112, 259-61 (1958). (LADC-2768)
- 58-154 Kruskal, M. and Tuck, James L.  
INSTABILITY OF A PINCHED FLUID WITH A LONGITUDINAL MAGNETIC  
FIELD.  
Proc. Roy. Soc. (London) 245A, 222-37 (1958).  
(LADC-2881)
- 58-155 Kulwich, Roman, Feinstein, Louis, and Anderson, Ernest C.  
CORRELATION OF POTASSIUM-40 CONCENTRATION AND FAT-FREE  
LEAN CONTENT OF HAMS.  
Science 127, 338-9 (1958). (LADC-3051)
- 58-156 Lane, A. M. and Thomas, Robert G.  
R-MATRIX THEORY OF NUCLEAR REACTIONS.  
Rev. Mod. Phys. 30, 257-353 (1958). (LADC-PUB-158)
- 58-157 Langham, Wright H.  
APPLICATION OF LIQUID SCINTILLATION COUNTING TO BIOLOGY AND  
MEDICINE.  
Liquid Scintillation Counting Conf., 135-49 (1958).  
(LADC-2984)

- 58-158 Langham, Wright H.  
 APPLICATION OF RADIOISOTOPES AND RADIATION IN MEDICINE,  
 AGRICULTURE AND INDUSTRY.  
 Minutes of the Forty-fifth Annual Meeting of the National  
 Association of Physical Plant Administrators of Universi-  
 ties and Colleges, University of New Mexico, Albuquerque,  
 New Mexico, April 26-30 and May 1-2, 1958, p. 81-87  
 (1958). (LADC-PUB-166)
- 58-159 Langham, Wright H. and Anderson, Ernest C.  
 ENTRY OF RADIOACTIVE FALLOUT INTO THE BIOSPHERE AND MAN.  
 Bull. Swiss Acad. Med. Sci. 14, 434-78 (1958).  
 (LADC-3293)
- 58-160 Langham, Wright H.  
 POTENTIAL HAZARD OF WORLD-WIDE Sr<sup>90</sup> FALLOUT FROM NUCLEAR  
 WEAPONS TESTING.  
 Health Phys. 1, 105-24 (1958). (LADC-3209)
- 58-161 Laquer, Henry L., Sydoriak, Stephen G., and Roberts Thomas R.  
 SOUND VELOCITY AND ADIABATIC COMPRESSIBILITY OF LIQUID He<sup>3</sup>.  
 Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison,  
 Wisconsin, 1957. 98-101 (1958). (LADC-2930)
- 58-162 Lawrence, James N. P.  
 HEALTH PHYSICS ASPECTS OF HANDLING URANIUM-233 FEED MATERIAL.  
 International Conference on the Peaceful Uses of Atomic  
 Energy, 2nd, Geneva. Proceedings 23, 330-3 (1958).  
 (LADC-3343)
- 58-163 Leary, Joseph A., Benz, Robert, Bowersox, David F., Bjorklund,  
 Carl W., Johnson, Karl William R., Maraman, William J.,  
 Mullins, Lawrence J., and Reavis, James G.  
 PYROMETALLURGICAL PURIFICATION OF PLUTONIUM REACTOR FUELS.  
 International Conference on the Peaceful Uses of Atomic  
 Energy, 2nd, Geneva. Proceedings 17, 376-82 (1958).  
 (LADC-3179)
- 58-164 Lehner, Joseph.  
 PARTIAL FRACTION DECOMPOSITIONS AND EXPANSIONS OF ZERO.  
 Am. Math. Soc. Trans. 87, 130-43 (1958). (LADC-1979)

- 58-165 Lewis, Harold W.  
FERMI-THOMAS MODEL WITH CORRELATIONS.  
Phys. Rev. 111, 1554-57 (1958). (LADC-3259)
- 58-166 Lewis, Harold W.  
RADIATIVE CORRECTIONS TO THE  $\pi \rightarrow e + \nu$  DECAY.  
Nuovo Cimento 10, 10, 405-6 (1958). (LADC-3495)
- 58-167 Low, Francis Eugene.  
LAGRANGIAN FORMULATION OF THE BOLTZMANN-VLASOV EQUATIONS FOR PLASMAS.  
Proc. Roy. Soc. (London). 248A, 282-7 (1958).  
(LADC-3283)
- 58-168 Lushbaugh, Clarence C. and Riese, Gretchen (translators).  
ACTION OF RADIATIONS ON TISSUES: AN INTRODUCTION TO  
RADIOTHERAPY. A. Lacassagne and G. Gricoureff, Paris, Mason  
et Cie, 2nd ed 1956. 170 p. New York Grune and Stratton,  
199 p. (1958). (LADC-NN-41)
- 58-169 Lushbaugh, Clarence C., Eliot, Theodore S., Eliot, Frankee P.  
and Slager, Ursula T.  
FIRST REPORT OF THE OCCURRENCE OF NEONATAL ENDOCARDIAL  
FIBROELASTOSIS IN CATS AND DOGS.  
J. Am. Veterinary Med. Assoc. 133, 271-4 (1958). (LADC-3426)
- 58-170 McCreary, William J.  
HIGH-PURITY CALCIUM.  
J. Metals 10, 615-7 (1958). (LADC-3301)
- 58-171 Magee, Marguerite and Foreman, Harry.  
NATURE OF PROTEINURIA INDUCED BY URANIUM IN RATS.  
Am. J. Physiol. 195, 354-6 (1958). (LADC-2893)
- 58-172 Maraman, William J.  
RECENT DEVELOPMENTS IN FACILITIES FOR HANDLING INTENSE ALPHA  
SOURCES.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 17, 676-80 (1958).  
(LADC-3370)

- 58-173 Matlack, George M., Meadows, Jesse W. T., and Nelson, Gilbert B.  
 LOW-ENERGY STANDARDS FOR GAMMA-RAY SPECTROMETRY.  
 Anal. Chem. 30, 1753-58 (1958). Also: Am. Chem. Soc.  
 Abstracts of Papers 133, 19B (1958). (LADC-3208)
- 58-174 Metropolis, Nicholas, Bivins, Robert L., Storm, Martin L.  
 Turkevich, Anthony, Miller, John M., and Friedlander, Gerhart.  
 MONTE CARLO CALCULATIONS ON INTRANUCLEAR CASCADES. I. LOW-  
 ENERGY STUDIES.  
 Phys. Rev. 110, 185-203 (1958). (LADC-2648)
- 58-175 Metropolis, Nicholas C., Bivins, Robert L., Storm, Martin L.,  
 Miller, John M., Friedlander, Gerhart, and Turkevich, Anthony.  
 MONTE CARLO CALCULATIONS OF INTRANUCLEAR CASCADES. II. HIGH-  
 ENERGY STUDIES AND PION PROCESSES.  
 Phys. Rev. 110, 204-9 (1958). (LADC-2658)
- 58-176 Metropolis, Nicholas and Ashenhurst, Robert L.  
 SIGNIFICANT DIGIT COMPUTER ARITHMETIC.  
 I.R.E. Trans. Electron. Computers 1, 265-7 (1958).  
 (LADC-NN-15)
- 58-177 Metz, Charles F.  
 ANALYTICAL CHEMICAL LABORATORIES FOR THE HANDLING OF  
 PLUTONIUM.  
 International Conference on the Peaceful Uses of Atomic  
 Energy, 2nd, Geneva. Proceedings 17, 681-90 (1958).  
 (LADC-3327)
- 58-178 Mills, Robert L. and Grilly, Edward R.  
 VOLUME CHANGE ON MELTING He<sup>3</sup> AND He<sup>4</sup> UP TO 3500 kg/cm<sup>2</sup>.  
 Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison,  
 Wisconsin, 1957. p. 106-8 (1958). (LADC-2932)
- 58-179 Morgan, Arthur N., Jr., Baker, Richard D., Hazen, Wayne C.,  
 Henrickson, Angus V., McNeese, Wilbur D., and Thomas, Richard  
 L.  
 LOS ALAMOS PLANT FOR REMOTELY CONTROLLED PRODUCTION OF  
 PLUTONIUM METAL.  
 International Conference on the Peaceful Uses of Atomic  
 Energy, 2nd, Geneva. Proceedings 17, 537-44 (1958).  
 (LADC-3180)

- 58-180 Mulford, Robert N. R. and Ellinger, Finley H.  
 $UO_2$ - $PuO_2$  SOLID SOLUTIONS.  
 J. Am. Chem. Soc. 80, 2023 (1958). (LADC-2995)
- 58-181 Mulford, Robert N. R. and Ellinger, Finley H.  
 $ThO_2$ - $PuO_2$  AND  $CeO_2$ - $PuO_2$  SOLID SOLUTIONS.  
 J. Phys. Chem. 62, 1466-67 (1958). (LADC-3363)
- 58-182 Muller, Ralph H. and Lonadier, Frank D.  
 DATA PLOTTER.  
 Anal. Chem. 30, 891-3 (1958). (LADC-2554)
- 58-183 Muller, Ralph H.  
 INSTRUMENTATION.  
 Anal. Chem. 30, 735-9 (1958). (LADC-2337)
- 58-184 Muller, Ralph H.  
 INTERACTION OF BETA PARTICLES WITH MATTER.  
 Ind. Eng. Chem. 50, 205-9 (1958). (LADC-2537c)
- 58-185 Murphy, Daniel J.  
 SOME PROPERTIES OF URANIUM - LOW TITANIUM ALLOYS.  
 Trans. Am. Soc. Metals 50, 884-904 (1958). (LADC-2649)
- 58-186 Murray, Arthur, III, and Williams, D. Lloyd.  
ORGANIC SYNTHESIS WITH ISOTOPEs (Interscience, New York)  
 2 vols. (1958). (LADC-NN-50)
- 58-187 Newton, Thomas W.  
 KINETICS OF THE REACTION BETWEEN PLUTONIUM (VI) AND URANIUM  
 (IV).  
 J. Phys. Chem. 62, 943-7 (1958). Also: Am. Chem. Soc.  
 Abstracts of Papers 133, 620 (1958). (LADC-3164)
- 58-188 Nobles, Ralph A. and Leachman, Robert Briggs.  
 NEUTRON-INDUCED FISSION OF  $Ra^{226}$ .  
 Nucl. Phys. 2, 211-17(1958). (LADC-2654)

- 58-189 Northrop, John A. and Stokes, Richard H.  
CONTINUOUS ENERGY MONITOR FOR THE EXTERNAL BEAM OF A  
CYCLOTRON.  
Rev. Sci. Instr. 29, 287-90 (1958). (LADC-3138)
- 58-190 Northrop, John A., Gursky, Judith, and Johnsrud, Alan E.  
FURTHER WORK WITH NOBLE ELEMENT SCINTILLATORS.  
I.R.E. Trans. Nucl. Sci. 5, 81-7 (1958). (LADC-3120)
- 58-191 Northrop, John A. and Gursky, Judith C.  
RELATIVE SCINTILLATION EFFICIENCIES OF NOBLE GAS MIXTURES.  
Nucl. Instr. 3, 207-12 (1958). (LADC-3404)
- 58-192 Northrop, John A.  
WAVELENGTH-SHIFTER EFFICIENCIES FOR NOBLE GAS SCINTILLATORS.  
Rev. Sci. Instr. 29, 437-8 (1958). (LADC-3225)
- 58-193 Onstott, Edward I. and Brown, Clarence J., Jr.  
ABSORPTION SPECTRA OF TERBIUM PERCHLORATE AND TERBIUM  
CHLORIDE.  
Anal. Chem. 30, 172-4 (1958). (LADC-2877)
- 58-194 Ott, Donald G.  
ROUND-TABLE ON "CHEMISTRY OF THE COUNTING SAMPLE" SCINTILLATION  
SOLUTIONS.  
Liquid Scintillation Counting Conf. 101-7 (1958).  
(LADC-3115)
- 58-195 Paxton, Hugh C.  
CRITICAL-ASSEMBLY BOOBY TRAPS.  
Nucleonics 16, 3, 80-1 (1958). (LADC-2858)
- 58-196 Paxton, Hugh C.  
CRITICAL FACILITIES FOR BASIC PHYSICS (PART 2 OF: THE ROLE  
OF CRITICAL FACILITIES).  
Nucleonics 16, 12, 42 (1958). (LADC-PUB-162)



- 58-197 Penneman, Robert A. and Jones, Llewellyn H.  
ERRATUM: INFRARED ABSORPTION OF GOLD MONOCYANIDE.  
J. Chem. Phys. 28, 169 (1958). (LADC-3103)
- 58-198 Penneman, Robert A. and Staritzky, Eugene.  
INFRA-RED AND CRYSTALLOGRAPHIC INVESTIGATION OF THE TlCN-KCN-  
H<sub>2</sub>O SYSTEM: THE LACK OF Tl (I) - CYANIDE COMPLEXES.  
J. Inorg. & Nucl. Chem. 6, 2, 112-8 (1958). (LADC-2797)
- 58-199 Penneman, Robert A. and Staritzky, Eugene.  
PREPARATION AND PROPERTIES OF LiAu(CN)<sub>2</sub>, NaAu(CN)<sub>2</sub>, AND THE  
DOUBLE OF COMPOUND LiAu(CN)<sub>2</sub>.KAu(CN)<sub>2</sub>.  
J. Inorg. & Nucl. Chem. 7, 1/2, 45-50 (1958). (LADC-3202)
- 58-200 Peterson, Peter J., Thomas, Richard L., and Green, Jere L.  
HOT CELLS FOR PLUTONIUM REACTOR RESEARCH.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 17, 664-7 (1958).  
(LADC-3187)
- 58-201 Peterson, Rolf E., Allred, John C., and Bendt, Philip J.  
CRITICAL MEASUREMENTS ON UO<sub>3</sub>-H<sub>3</sub>PO<sub>4</sub> SOLUTIONS.  
Nucl. Sci. Eng. 4, 499-500 (1958). (LADC-3345)
- 58-202 Phillips, James A. and Tuck, James L.  
ALL-METAL DISCHARGE TUBE WALL.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 32, 40-1 (1958).  
(LADC-3375)
- 58-203 Popjak, George, Gosselin, L., Gore, I. Y., and Gould, R. Gordon.  
STUDIES ON THE BISYNTHESIS OF CHOLESTEROL. VI. COENZYME  
REQUIREMENTS OF LIVER ENZYMES FOR SYNTHESIS OF SQUALENE AND  
OF STEROL FROM DL-3-HYDROXY-3-METHYL-[2-14C] PENTANO-5-  
LACTONE.  
Biochem. J. 69, 238-48 (June 1958). (LADC-NN-99)
- 58-204 Porter, Charles E.  
MEETING IN YUGOSLAVIA ON NUCLEAR REACTIONS.  
Phys. Today 11, 17-8 (1958). (LADC-3057)

- 58-205 Porter, Charles E.  
 NITROGEN-NITROGEN ELASTIC SCATTERING.  
 Phys. Rev. 112, 1722-30 (1958). (LADC-3374)
- 58-206 Porter, Charles Edwin.  
 PHYSICS IN FINLAND.  
 Phys. Today 11, 21-7 (1958). (LADC-NN-42)
- 58-207 Povelites, John G.  
 PREPARATION OF FOILS.  
 International Conference on the Peaceful Uses of Atomic  
 Energy, 2nd, Geneva. Proceedings 14, 432-6 (1958).  
 (LADC-3337)
- 58-208 Rabideau, Sherman W. and Kline, Robert J.  
 KINETICS OF OXIDATION REDUCTION REACTIONS OF PLUTONIUM. THE  
 REACTION BETWEEN PLUTONIUM (IV) AND PLUTONIUM (III) IN  
 PERCHLORATE SOLUTION.  
 J. Phys. Chem. 62, 617-20 (1958). Also: Am. Chem. Soc.  
 Abstracts of Papers 133, 620 (1958). (LADC-3150)
- 58-209 Rabideau, Sherman W.  
 KINETICS OF OXIDATION-REDUCTION REACTIONS OF PLUTONIUM. THE  
 REACTION BETWEEN PLUTONIUM (VI) AND VANADIUM (III) IN PER-  
 CHLORATE SOLUTION.  
 J. Phys. Chem. 62, 414-7 (1958). (LADC-3071)
- 58-210 Rabideau, Sherman W., Asprey, Larned B., Keenan, Tom K., and  
 Newton, Thomas W.  
 RECENT ADVANCES IN THE BASIC CHEMISTRY OF PLUTONIUM,  
 AMERICIUM AND CURIUM.  
 International Conference on the Peaceful Uses of Atomic  
 Energy, 2nd, Geneva. Proceedings 28, 361-72 (1958).  
 (LADC-3322)
- 58-211 Reines, Frederick, Cowan, Clyde L., Jr., and Kruse, Herald W.  
 CONVERSION OF THE NUMBER OF NUCLEONS.  
 Phys. Rev. 109, 609-10 (1958). (LADC-3102)

- 58-212 Reines, Frederick.  
GIANT LIQUID SCINTILLATION DETECTORS AND THEIR APPLICATIONS.  
Liquid Scintillation Counting Conf. 246-57 (1958).  
(LADC-2989)
- 58-213 Rice, Melvin H., McQueen, Robert G., and Walsh, John M.  
COMPRESSION OF SOLIDS BY STRONG SHOCK WAVES.  
Solid State Phys. 6, 1-63 (1958). (LADC-2812)
- 58-214 Roberts, Robert N. and Dinegar, Robert H.  
SOLUBILITY OF PENTAERYTHRITOL TETRANITRATE.  
J. Phys. Chem. 62, 1009-11 (1958). (LADC-3364)
- 58-215 Roberts, Thomas R. and Sydoriak, Stephen G.  
VAPOR PRESSURES, LAMBDA POINTS AND PHASE SEPARATION OF  
He<sup>3</sup> - He<sup>4</sup> MIXTURES.  
Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison,  
Wisconsin, 1957. 170-74 (1958). (LADC-2919)
- 58-216 Ronzio, Anthony R., Cowan, Clyde L., Jr., Reines, Frederick.  
LIQUID SCINTILLATORS FOR FREE NEUTRINO DETECTION.  
Rev. Sci. Instr. 29, 2, 146-7 (1958). (LADC-2871)
- 58-217 Rosen, Louis and Brolley, John E.  
ELASTIC SCATTERING OF COMPLETELY POLARIZED 10-MEV PROTONS  
BY COMPLEX NUCLEI.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 14, 116-24 (1958).  
(LADC-3321)
- 58-218 Rosenthal, Jerome J. and Stoddard, Stephen D.  
STUDY OF PROCESS VARIABLES IN BARIUM TITANATE CERAMICS.  
Am. Ceram. Soc. Bull. 37, 370-5 (1958). (LADC-2900)
- 58-219 Rotenberg, Manuel and Willets, Lawrence.  
VARIATIONAL WAVE FUNCTION FOR NUCLEAR MATTER.  
Phys. Rev. 110, 1126-30 (1958). (LADC-2777)

- 58-220 Sandenaw, Thomas A. and Gibney, Robert B.  
ELECTRICAL RESISTIVITY AND THERMAL CONDUCTIVITY OF PLUTONIUM METAL.  
J. Phys. Chem. Solids 6, 81-8 (1958). (LADC-3052)
- 58-221 Sayeg, Joseph A., Harris, Payne S., and Allison, James T.  
MEASUREMENT OF THE NEUTRON RESPONSE OF A GRAPHITE-CO<sub>2</sub> IONIZATION CHAMBER.  
Radiology 70, 95-6 (1958). (LADC-3087)
- 58-222 Schonfeld, Fred W., Tate, Raymond E., and Maraman, William J.  
PROCEDURE AT THE LOS ALAMOS SCIENTIFIC LABORATORY.  
Glove Boxes and Shielded Cells, Pt. of chap. 9 entitled "Metallurgical Glove Box Practice in the United States".  
Proc. Symp. on Glove Box Design and Operation, Harwell, 1957. p. 150-72 (1958). (LADC-2676)
- 58-223 Schott, Garry L. and Kinsey, Jimmy Lloyd.  
KINETIC STUDIES OF HYDROXYL RADICALS IN SHOCK WAVES.  
II. INDUCTION TIMES IN THE HYDROGEN-OXYGEN REACTION.  
J. Chem. Phys. 29, 1177-82 (1958). Also: Am. Chem. Soc. Abstracts of Papers 133, 7-8Q (1958). (LADC-3216)
- 58-224 Schreiber, Raemer E.  
LOS ALAMOS' PROJECT ROVER.  
Nucleonics 16, 7, 70-2 (1958). (LADC-PUB-171)
- 58-225 Schuch, Adam F.  
STRUCTURE OF SOLID HELIUM.  
Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison, Wisconsin, 1957. 79-81 (1958). (LADC-2933)
- 58-226 Schuch, Adam F., Grilly, Edward R., and Mills, Robert L.  
STRUCTURE OF THE  $\alpha$  AND  $\beta$  FORMS OF SOLID He<sup>3</sup>.  
Phys. Rev. 110, 775 (1958). (LADC-3297)

- 58-227 Schulte, Harry F. and Meyer, Dean D.  
CONTROL OF HEALTH HAZARDS IN HANDLING OF PLUTONIUM: RESULTS  
OF 14 YEARS' EXPERIENCE.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 23, 206-10 (1958).  
(LADC-3318)
- 58-228 Shipman, Thomas L.  
ADMINISTRATIVE PROBLEMS IN NUCLEAR ENERGY.  
Arch. Ind. Health 18, 106-9 (1958). (LADC-PUB-170)
- 58-229 Smiley, William G.  
OXYGEN DETERMINATIONS USING A PLATINUM BATH AND CAPILLARY  
TRAP.  
Am. Soc. Testing Mater. Spec. Tech. Publ. No. 222, 25-31  
(1958). (LADC-2732)
- 58-230 Smith, Maynard E.  
SPECTROPHOTOMETRIC DETERMINATION OF RHODIUM AND PLATINUM IN  
PLUTONIUM.  
Anal. Chem. 30, 912-3 (1958). (LADC-2942)
- 58-231 Spalding, John F., Strang, Verda G., and Hawkins, Sara B.  
FAILURE OF PREGNANCY AS A PROTECTIVE AGENT AGAINST X-  
IRRADIATION.  
Radiation Res. 8, 222-6 (1958). (LADC-2910)
- 58-232 Spalding, John F., Hawkins, Sara Beth, and Sayeg, Joseph A.  
RELATIVE BIOLOGICAL EFFECT OF 14-MEV NEUTRONS WITH THE  
BROAD BEAN ROOT (VICIA FABA) AS A TEST SYSTEM.  
Radiation Res. 2, 548-51 (1958). (LADC-3275)
- 58-233 Spalding, John F., Langham, Wright H., and Anderson, Ernest C.  
RELATIVE BIOLOGICAL EFFECTIVENESS OF ALPHA-RADIATION WITH  
THE BROAD BEAN ROOT (VICIA FABA) AS A TEST SYSTEM.  
Radiation Res. 8, 322-8 (1958). (LADC-2807)

- 58-234 Spalding, John F., Hawkins, Sara Beth, and Strang, Verda G.  
RELATIVE EFFECTIVENESS OF NEUTRONS OF 1.4-MEV AND 14-MEV  
ENERGIES AND GAMMA RAYS IN THE REDUCTION OF FERTILITY IN  
THE MALE MOUSE.  
Radiation Res. 9, 369-77 (1958). (LADC-3163)
- 58-235 Stein, William E. and Whetstone, Stanley L., Jr.  
PROMPT NEUTRON EMISSION FROM SPONTANEOUS-FISSION MODES OF  
Cf<sup>252</sup>.  
Phys. Rev. 110, 2, 476-84 (1958). (LADC-2929)
- 58-236 Stoddard, Stephen D. and Allison, Adrian G.  
CASTING OF MAGNESIUM OXIDE IN AQUEOUS SLIPS.  
Am. Ceram. Soc. Bull. 37, 409-13 (1958). (LADC-2728)
- 58-237 Stokes, Richard H., Northrop, John A., and Boyer, Keith.  
APPARATUS FOR MEASURING THE ENERGY SPECTRA OF MASS-SELECTED  
PARTICLES IN COINCIDENCE WITH FISSION.  
Rev. Sci. Instr. 29, 61-4 (1958). (LADC-3013)
- 58-238 Stokes, Richard H., Northrop, John A., and Boyer, Keith.  
MEASUREMENT OF FISSION THRESHOLD STRUCTURE AND ITS COLLECTIVE  
MODEL INTERPRETATION.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 15, 179-83 (1958).  
(LADC-3387)
- 58-239 Storer, John B. and Sanders, Phyllis C.  
RELATIVE EFFECTIVENESS OF NEUTRONS FOR PRODUCTION OF DELAYED  
BIOLOGICAL EFFECTS. I. EFFECT OF SINGLE DOSES OF THERMAL  
NEUTRONS ON LIFE SPAN OF MICE.  
Radiation Res. 8, 64-70 (1958). (LADC-2895)
- 58-240 Storer, John B., Rogers, Betty S., Boone, Irene U., and Harris,  
Payne S.  
RELATIVE EFFECTIVENESS OF NEUTRONS FOR PRODUCTION OF DELAYED  
BIOLOGICAL EFFECTS. II. EFFECT OF SINGLE DOSES OF NEUTRONS  
FROM AN ATOMIC WEAPON ON LIFE SPAN OF MICE.  
Radiation Res. 8, 71-6 (1958). (LADC-2897)

- 58-241 Stout, Ellis L. and Stearns, James G.  
SAFETY CONSIDERATIONS FOR HANDLING PLUTONIUM.  
Proc. Hot Lab. Equip. Conf., 6th, Chicago, 320-6 (1958).  
(LADC-3199)
- 58-242 Stratton, William R., Colvin, Ted H., and Lazarus, Roger B.  
ANALYSIS OF PROMPT EXCURSIONS IN SIMPLE SYSTEMS AND IDEALIZED  
REACTORS.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 12, 196-206 (1958).  
(LADC-3196)
- 58-243 Strickler, T. D., Gilbert, Homer E., and Auxier, John A.  
FAST NEUTRON SCATTERING FROM FIXED SLABS.  
Nucl. Sci. Eng. 3, 11-8 (1958). (LADC-3523)
- 58-244 Swamy, N. V. V. J. and Green, Alex E. S.  
COULOMB EXCHANGE ENERGY FROM SHELL-MODEL WAVE FUNCTIONS.  
Phys. Rev. 112, 1719-21 (1958). (LADC-NN-89)
- 58-245 Swank, Robert K., Buck, Warren L., Hayes, F. Newton, and Ott,  
Donald G.  
SPECTRAL EFFECTS IN THE COMPARISON OF SCINTILLATORS AND  
PHOTOMULTIPLIERS.  
Rev. Sci. Instr. 29, 279-84 (1958). (LADC-3240)
- 58-246 Taschek, Richard F.  
NEKOTORYE IADERNYE REAKTSII PROISKHODIASHCHIE S TRIGONAMI V  
KACHESGVE MISHENI I BOMBARDIRVIUSHIKH CHASTITS.  
Akad. Nauk SSSR. Otd. Fiz.-Mat. Nauk. Iadernye Reaktsii  
Pri Nalykh i Snednikh Energ. Tr. 51-62 (1958).  
(LADC-3144)
- 58-247 Tate, Raymond E. and Coffinberry, Arthur S.  
PLUTONIUM-BERYLLIUM NEUTRON SOURCES, THEIR FABRICATION AND  
NEUTRON YIELD.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 14, 427-31 (1958).  
(LADC-3222)

- 58-248 Taylor, Grover M.  
HIGH PRECISION DENSITY TIMES THICKNESS GAGE.  
Am. Soc. Testing Mater. Spec. Tech. Publ. No. 223, 231-7  
(1958). (LADC-2511)
- 58-249 Taylor, R. Dean and Dash, Jay G.  
CRITICAL VELOCITY STUDIES IN PURE He<sup>3</sup> AND IN He<sup>3</sup>-He<sup>4</sup>  
MIXTURES.  
Proc. Intern. Conf. Low Temp. Phys. Chem., 5th, Madison,  
Wisconsin, 1957, p. 164-68 (1958). (LADC-2918)
- 58-250 Tenney, Gerold H.  
INTRODUCTORY REMARKS.  
Nondestructive Testing 16, 80 (1958). (LADC-NN-34)
- 58-251 Tenney, Gerold H.  
(Review of) RADIOGRAPHY IN MODERN INDUSTRY, 2nd ed. by the  
X-Ray Div., Eastman Kodak Co.  
Nucleonics 16, 7, 112 (1958). (LADC-NN-68)
- 58-252 Tenney, Gerold H.  
SUMMARY OF THE ACTIVITIES ON INTERNATIONAL COOPERATION DURING  
THE CONFERENCE.  
Nondestructive Testing 16, 173-4 (1958). (LADC-NN-69)
- 58-253 Tenney, Gerold H.  
SURVEY OF RADIATION TECHNIQUES.  
Am. Soc. Testing Mater. Spec. Tech. Publ. No. 223, 44-61  
(1958). (LADC-2834)
- 58-254 Terrell, James.  
DISTRIBUTION OF FISSION NEUTRONS (Summarized by V. P. Rudakov)  
Soviet J. At. Energy (English Translation) 4, 419-25 (1958).  
(LADC-2880)
- 58-255 Terrell, James and Holm, Dale M.  
EXCITATION FUNCTION OF Fe<sup>56</sup>(n,p)Mn<sup>56</sup>.  
Phys. Rev. 109, 2031-35 (1958). (LADC-1617)



- 58-256 Terrell, James.  
 RASPREDENIE CHISLA NEITRONOV DELENIIA (Summarized by V. P. Rudakov).  
 At. Energ. 4, 315-20 (1958). (LADC-NN-73)
- 58-257 Thamer, Burton J.  
 FUEL SYSTEM  $UO_2-H_3PO_4-H_2O$  AND LOS ALAMOS POWER REACTOR  
 EXPERIMENT II.  
 International Conference on the Peaceful Uses of Atomic  
 Energy, 2nd, Geneva. Proceedings 7, 54-56 (1958).  
 (LADC-3335)
- 58-258 True, William W. and Ford, Kenneth W.  
 SHELL-MODEL THEORY OF  $Pb^{206}$ .  
 Phys. Rev. 109, 1675-97 (1958). (LADC-3081)
- 58-259 Ulam, Stanislaw.  
 JOHN VON NEUMANN, 1903-1957.  
 Am. Math. Soc. Bull. 64, pt. 2, 1-49 (1958). (LADC-3277)
- 58-260 Ungnade, Herbert E. and McBee, Earl T.  
 CHEMISTRY OF PERCHLOROCYCLOPENTENES AND CYCLOPENTADIENES.  
 Chem. Rev. 58, 249-320 (1958). (LADC-3133)
- 58-261 Ungnade, Herbert E. and Kissinger, Leonard W.  
 STRUCTURE OF AMIDOXIMES.  
 J. Org. Chem. 23, 1794-95 (1958). (LADC-3407)
- 58-262 Voorhees, Edward A.  
 ALGEBRAIC FORMULATION OF FLOW DIAGRAMS.  
 Assoc. Comput. Machin., Commun. 1, 6, 4-8 (1958).  
 (LADC-2784)
- 58-263 Waber, James T.  
 CORROSION BEHAVIOR OF PLUTONIUM AND URANIUM.  
 International Conference on the Peaceful Uses of Atomic  
 Energy, 2nd, Geneva. Proceedings 6, 204-14 (1958).  
 (LADC-3210)

- 58-264 Waber, James T., Kline, Mary Repar, and Johnson, Leah K.  
EFFECT OF ALLOYING ON THE CRITICAL MASS OF A PLUTONIUM  
SPHERICAL FAST REACTOR.  
Nucl. Sci. Eng. 4, 3, 341-53 (1958). (LADC-2975)
- 58-265 Waber, James T.  
KINETICS OF OXIDATION IN A GAS STREAM.  
Metals for Supersonic Aircraft and Missiles, Conf. on  
Heat Tolerant Metals for Aerodynamic Applications,  
Albuquerque, New Mexico, 1957, p. 96-169 (1958).  
(LADC-2702)
- 58-266 Wagner, Paul, Driesner, Allen R., and Kmetko, Edward A.  
SOME MECHANICAL PROPERTIES OF GRAPHITE IN THE TEMPERATURE  
RANGE 20 TO 3000°C.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 7, 379-88 (1958).  
(LADC-3325)
- 58-267 Wahl, Arthur C.  
NUCLEAR-CHARGE DISTRIBUTION IN FISSION: CUMULATIVE YIELDS  
OF SHORT-LIVED KRYPTON AND XENON ISOTOPES FROM THERMAL-  
NEUTRON FISSION OF U<sup>235</sup>.  
J. Inorg. & Nucl. Chem. 6, 263-77 (1958). (LADC-2964)
- 58-268 Waterbury, Glenn R., Van Kooten, Edward H., and Morosin, Bruno.  
DETERMINATION OF LITHIUM AND SODIUM CHLORIDES BY POTENTIO-  
METRIC TITRATION FOLLOWING 2-ETHYL-1-HEXANOL SEPARATION.  
Anal. Chem. 30, 1627-29 (1958). (LADC-3178)
- 58-269 Waterbury, Glenn R. and Bricker, Clark E.  
SEPARATION AND SPECTROPHOTOMETRIC DETERMINATION OF MICROGRAM  
AMOUNTS OF NIOBIUM.  
Anal. Chem. 30, 1007-9 (1958). (LADC-2826)
- 58-270 Wegner, Harvey E. and Hall, W. Stanley.  
He<sup>3</sup> RECIRCULATION AND PURIFICATION SYSTEM FOR A CYCLOTRON  
ION SOURCE.  
Rev. Sci. Instr. 29, 1100-03 (1958). (LADC-3498)

- 58-271 Wilets, Lawrence.  
FISSION.  
Proc. Intern. Conf. Nucl. Struct., Rehovoth, Sept. 9, 1957.  
p. 122-33 (1958). (LADC-2953)
- 58-272 Wilets, Lawrence.  
ISOTOPE SHIFTS.  
Handbuch der Physik, Flugge, Siegfried (ed) (Springer),  
v. 38/1, p. 96-119 (1958). (LADC-NN-36)
- 58-273 Wiley, Richard H., Jarboe, C. Harry, Hayes, F. Newton, Hansbury,  
Elizabeth, Nielsen, J. T., Callahan, P. X., and Sellers, M. C.  
1,3,5-TRIARYL-2-PYRAZOLINES FOR USE AS SCINTILLATOR SOLUTES.  
J. Org. Chem. 23, 732-8 (1958). (LADC-3132)
- 58-274 Wiley, Richard H., Jarboe, C. Harry, Jr., and Hayes, F. Newton.  
SUBSTITUTED 4,7-PHENANTHROLINES AND BENZO [f] QUINOLINES AS  
SCINTILLATOR SOLUTES.  
J. Org. Chem. 23, 268-71 (1958). (LADC-2885)
- 58-275 Willard, Hobart H., Mosen, Arthur W., and Gardner, Ross D.  
VOLUMETRIC DETERMINATION OF THORIUM IN URANIUM ALLOYS.  
Anal. Chem. 30, 1614-16 (1958). (LADC-2618)
- 58-276 Wimett, Thomas F. and Orndoff, John D.  
APPLICATIONS OF GODIVA II NEUTRON PULSES.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 10, 449-60 (1958).  
(LADC-3203)
- 58-277 Winchester, Robert S. and Maraman, William J.  
AQUEOUS RECOVERY OF ELUTONIUM FROM ALLOYS CONTAINING FISSION  
PRODUCT ELEMENTS.  
International Conference on the Peaceful Uses of Atomic  
Energy, 2nd, Geneva. Proceedings 17, 168-71 (1958).  
(LADC-3185)
- 58-278 Wood, William Wayne and Kirkwood, John G.  
PRESENT STATUS OF DETONATION THEORY.  
J. Chem. Phys. 29, 957-8 (1958). (LADC-3489)

- 58-279 Wood, William Wayne, Parker, Frederick R., and Jacobson, Jack D.  
 RECENT MONTE CARLO CALCULATIONS OF THE EQUATIONS OF STATE  
 OF LENNARD-JONES AND HARD SPHERE MOLECULES.  
 Nuovo Cimento s. 10, 9, Suppl. 1, 133-43 (1958).  
 (LADC-2944)
- 58-280 Wood, William W. and Parker, Frederick R.  
 STRUCTURE OF A CENTERED RAREFACTION WAVE IN A RELAXING GAS.  
 Phys. Fluids 1, 230-41 (1958). (LADC-3287)
- 58-281 Wyman, Marvin E., Fryer, Edward M., and Thorpe, Munson M.  
 (n,t) CROSS SECTIONS FOR  $B^{10}$ ,  $B^{11}$ , and  $Be^9$ .  
 Phys. Rev. 112, 1264-66 (1958). (LADC-3271)
- 58-282 Yarnell, John L., Arnold, George P., Bendt, Philip J., and  
 Kerr, Eugene C.  
 ENERGY vs MOMENTUM RELATION FOR THE EXCITATIONS IN LIQUID  
 HELIUM.  
 Phys. Rev. Letters 1, 9 (1958). (LADC-3309)
- 58-283 Young, James E.  
 PERTURBATION EXPANSIONS IN THE FORMAL THEORY OF SCATTERING.  
 Phys. Rev. 109, 2141-44 (1958). (LADC-3028)

- 58-1A Aronson, Anna, Clayton, John C., Roof, Raymond B., Jr., and Belle, Jack.  
KINETICS OF THE REDUCTION OF  $U_4O_9$  IN HYDROGEN.  
Am. Chem. Soc. Abstracts of Papers 133, 63-4Q (1958).  
(LADC-NN-88)
- 58-2A Bradbury, John N. and Stewart, Leona.  
DETAILED BALANCE IN THE REACTIONS  $p+t \rightleftharpoons D+d$  AND DIFFERENTIAL CROSS SECTIONS FOR THE  $He^3(n,d)H^2$  REACTION.  
Bull. Am. Phys. Soc., 2, 3, 417 (1958). (LADC-3571)
- 58-3A Brolley, John E., Jr.  
ANGULAR ANISOTROPY OF NEUTRON-INDUCED FISSION OF  $Pu^{239}$ .  
Proc. Intern. Conf. Nucl. Struct., Rehovoth, 1957. p. 134  
(1958). (LADC-NN-53)
- 58-4A Bryant, Ernest A., Sattizahn, James E., and Warren, Buddy.  
STRONTIUM-90 ANALYSIS BY A CATION EXCHANGE METHOD.  
Am. Chem. Soc. Abstracts of Papers 133, 3B (1958).  
(LADC-3190)
- 58-5A Bubernak, Joseph, Lew, Marion S., and Matlack, George M.  
RADIOANALYSIS OF AMERICIUM BY GAMMA COUNTING.  
Am. Chem. Soc. Abstracts of Papers 133, 19B (1958).  
(LADC-3207)
- 58-6A Burkhardt, Louis C.  
CURRENT DISTRIBUTION IN AN IMPULSIVE PINCH DISCHARGE.  
Bull. Am. Phys. Soc. 2, 3, 84 (1958). (LADC-3015)
- 58-7A Carnall, William T., Fields, Paul R., and Keenan, Thomas K.  
COMPLEXES OF AMERICIUM III AND CURIUM III BY ABSORPTION SPECTROMETRY.  
Am. Chem. Soc. Abstracts of Papers 133, 40K (1958).  
(LADC-3290)

- 58-8A Carter, Robert E., Wagner, John J., and Wyman, Marvin Eugene.  
X-RAY EMISSION FROM FISSION IN THE REGION FROM 1.5 KEV TO  
40 KEV.  
Bull. Am. Phys. Soc. 2, 3, 228 (1958). (LADC-3272)
- 58-9A Cochran, Donald R. F. and Knight, Jere D.  
 $Cl^{22}(He^3, \alpha)Cl^{11}$ ,  $Cl^{22}(He^3, d)$ , AND  $mp)N^{13}$ , AND  $Al^{27}(He^3, 2 \alpha)Na^{22}$   
EXCITATION FUNCTIONS FROM 13 TO 21 MEV.  
Bull. Am. Phys. Soc. 2, 3, 323 (1958). (LADC-3470)
- 58-10A Cranberg, Lawrence, Seagrave, John D., and Simmons, James E.  
ELASTIC SCATTERING OF FAST NEUTRONS BY CALCIUM.  
Bull. Am. Phys. Soc. 2, 3, 336-7 (1958). (LADC-3460)
- 58-11A Cranberg, Lawrence.  
PHOTODISINTEGRATION OF  $He^3$ .  
Bull. Am. Phys. Soc. 2, 3, 173 (1958). (LADC-3251)
- 58-12A Cranberg, Lawrence.  
POLARIZED NEUTRONS FROM  $Li^7(p, n)Be^7$  AND THEIR INTERACTIONS  
AT 2.15 MEV.  
Bull. Am. Phys. Soc. 2, 3, 365 (1958). (LADC-3527)
- 58-13A Deal, William E.  
MEASUREMENTS OF THE HUGONIOT AND ADIABAT FOR EXPLOSIVE  
REACTION PRODUCTS.  
Bull. Am. Phys. Soc. 2, 3, 286 (1958). (LADC-2986)
- 58-14A Dreicer, Harry.  
THEORY OF RUN-AWAY ELECTRONS.  
Bull. Am. Phys. Soc. 2, 3, 86 (1958). (LADC-3355)
- 58-15A Duff, Russell E.  
CALCULATION OF REACTION ZONE STRUCTURE BEHIND SHOCK WAVES.  
Bull. Am. Phys. Soc. 2, 3, 290 (1958). (LADC-3069)
- 58-16A Duff, Russell E. and Minshall, F. Stanley.  
INVESTIGATION OF A SHOCK-INDUCED TRANSITION IN BISMUTH.  
Bull. Am. Phys. Soc. 2, 3, 291 (1958). (LADC-2951)

- 58-17A Edwards, Paul D.  
ELECTRODE POTENTIAL TESTING.  
Nondestructive Testing 16, 409 (1958). (LADC-3556)
- 58-18A Elliott, Dana E. and Knowles, Charles M.  
EXPERIMENTS ON THE COMPARISON OF THE RADIOGRAPHIC QUALITIES  
OF THE 1 MEV VAN DE GRAAFF X-RAY UNITS.  
Nondestructive Testing 16, 413 (1958). (LADC-3406)
- 58-19A Elliott, Guy R. B. and Lemons, Joe F.  
ACTIVITIES IN THE SYSTEM CERIUM-CADMIUM.  
Am. Chem. Soc. Abstracts of Papers 134, 38N (1958).  
(LADC-3444)
- 58-20A Fickett, Wildon and Kirkwood, John G.  
THEORY OF OPTICAL ROTARY POWER AND ITS APPLICATION TO SOME  
SIMPLE ORGANIC MOLECULES.  
Am. Chem. Soc. Abstracts of Papers 133, 28Q (1958).  
(LADC-NN-6)
- 58-21A Foreman, Harry.  
PLUTONIUM BINDING BY BONE.  
Radiation Res. 9, 1, 115 (July 1958). (LADC-3286)
- 58-22A Fowler, Eric B., Thomas, Richard G., Johnson, George L.,  
Melnick, Mitchell A., Rex, Elgin H., Vigil, Felix A., and  
Christenson, Conard W.  
EFFECT OF VARIED CONCENTRATIONS OF SOIL CALCIUM ON THE  
UPTAKE OF STRONTIUM-90 BY GRASS, ALFAFA, AND LETTUCE.  
Am. Chem. Soc. Abstracts of Papers 133, 11A (1958).  
(LADC-3218)
- 58-23A Frye, Glenn M., Jr., and Armstrong, Alice H.  
ANTI-PROTON ANNIHILATION IN NUCLEAR EMULSION.  
Bull. Am. Phys. Soc. 2, 3, 163 (1958). (LADC-3270)
- 58-24A Gammel, John L. and Thaler, Roy M.  
ON SPIN-ORBIT COUPLING IN THE NUCLEON-NUCLEON INTERACTION.  
Proc. Intern. Conf. Nucl. Struct., Rehovoth, 1957.  
p. 76 (1958). (LADC-NN-98)

- 58-25A Goldstein, Louis  
ON THERMAL EXCITATIONS IN LIQUID He<sup>3</sup>.  
Physica 24, Suppl., S133 (1958). (LADC-3334)
- 58-26A Gould, R. Gordon, Bell, Virginia L., Lilly, Edith H., and  
Popjak, George.  
EFFECT OF X-IRRADIATION OF CHOLESTEROL BIOSYNTHESIS IN RAT  
LIVER AND ADRENAL AS MEASURED BY ACETATE-C<sup>14</sup> IN MEVALONIC  
ACID-C<sup>14</sup> INCORPORATION IN VITRO.  
Radiation Res. 9, 1, 121-2 (July 1958). (LADC-3329)
- 58-27A Griffin, James J.  
ENERGY DEPENDENCE OF FISSION ANISOTROPY.  
Bull. Am. Phys. Soc. 2, 3, 337-8 (1958). (LADC-3257)
- 58-28A Hoffman, Marvin.  
ISOTROPY OF GAMMA RAYS EMITTED DURING NUCLEAR FISSION.  
Bull. Am. Phys. Soc. 2, 3, 6 (1958). (LADC-3128)
- 58-29A Jarmie, Nelson and Allen, Robert C.  
T(p,p)T SCATTERING NEAR THE T(p,n)He<sup>3</sup> THRESHOLD.  
Bull. Am. Phys. Soc. 2, 3, 419 (1958). (LADC-3558)
- 58-30A Keenan, Thomas K.  
REVIEW OF THE CHEMISTRY OF AMERICIUM AND CURIUM.  
Am. Chem. Soc. Abstracts of Papers 133, 20-21F (1958).  
(LADC-3166)
- 58-31A Keepin, George Robert.  
PERIOD REACTIVITY RELATIONS DETERMINED DIRECTLY FROM PROMPT-  
BURST NEUTRON DECAY DATA.  
Trans. Am. Nucl. Soc. 1, 2, 89-90 (1958). (LADC-3491)
- 58-32A Keller, William E. and Hammel, Edward F.  
HEAT TRANSFER BY LIQUID <sup>4</sup>He II THROUGH NARROW SLITS.  
Physica 24, Suppl., S142-3 (1958). (LADC-3317)



- 58-33A Knight, Herbert T. and Duff, Russell E.  
FLASH X-RAY DETERMINATION OF DENSITY RATIO IN GASEOUS  
DETONATION.  
Bull. Am. Phys. Soc. 2, 3, 286 (1958). (LADC-3072)
- 58-34A Leary, Joseph A., Morgan, Arthur N., and Mareman, William J.  
PLUTONIUM PEROXIDE PRECIPITATION.  
Am. Chem. Soc. Abstracts of Papers 133, 40K (1958).  
(LADC-3244)
- 58-35A Lovberg, Ralph H.  
INSTABILITIES IN A PINCHED DISCHARGE.  
Bull. Am. Phys. Soc. 2, 3, 85 (1958). (LADC-3017)
- 58-36A McGuire, Austin D., Argo, Harold V., Harrison, Francis B.,  
and Kruse, Herald W.  
 $\mu^-$  ABSORPTION IN  $\text{Cl}_2$ .  
Bull. Am. Phys. Soc. 2, 3, 362-3 (1958). (LADC-3536)
- 58-37A Marion, Jerry B., Levin, Jules S., and Cranberg, Lawrence.  
ELASTIC AND NONELASTIC NEUTRON CROSS SECTIONS FOR BERYLLIUM.  
Bull. Am. Phys. Soc. 2, 3, 165 (1958). (LADC-3682)
- 58-38A Mather, Joseph W.  
PINCH EFFECT IN ARGON AND HELIUM.  
Bull. Am. Phys. Soc. 2, 3, 84 (1958). (LADC-3014)
- 58-39A Moore, Richard H. and Chezem, Curtis G.  
APPLICATIONS OF THE ITERATIVE LEAST SQUARES PROCEDURES.  
Trans. Am. Nucl. Soc. 1, 2, 129-30 (1958). (LADC-3508)
- 58-40A Moore, Richard H. and Zeigler, Royal Keith.  
USE OF HIGH-SPEED COMPUTERS IN DETERMINING THE PARAMETERS  
OF NONLINEAR FUNCTIONS BY ITERATIVE LEAST SQUARES METHOD.  
Trans. Am. Nucl. Soc. 1, 2, 128-9 (1958). (LADC-3509)

- 58-41A Muller, Doris Clegg.  
APPLICATIONS OF CHARACTERISTIC X-RAYS EXCITED BY BETA PARTICLE BOMBARDMENT.  
Am. Chem. Soc. Abstracts of Papers 133, 26B (1958).  
(LADC-4203)
- 58-42A Muller, Ralph H. and White, Ralph W.  
CHARACTERISTIC X-RAYS FROM BETA-BOMBARDED REFLECTION TARGETS.  
Am. Chem. Soc. Abstracts of Papers 134, 25B (1958).  
(LADC-4286)
- 58-43A Muller, Ralph H.  
EXCITATION OF CHARACTERISTIC X-RAYS BY BETA PARTICLE BOMBARDMENT.  
Am. Chem. Soc. Abstracts of Papers 133, 25B (1958).  
(LADC-4286)
- 58-44A Muller, Ralph H., Lonadier, Frank D., and White, Ralph W.  
OPTIMUM THICKNESS OF TARGETS FOR THE GENERATION OF CHARACTERISTIC X-RAYS BY BETA PARTICLE BOMBARDMENT.  
Am. Chem. Soc. Abstracts of Papers 133, 25B (1958).  
(LADC-4553)
- 58-45A Muller, Ralph H.  
PHOTOELECTRIC AUTOTITRATOR.  
Am. Chem. Soc. Abstracts of Papers 133, 15B (1958).  
(LADC-NN-48)
- 58-46A Muller, Ralph H.  
USE OF ABSORPTION DATA IN THE CALIBRATION OF SCINTILLATION SPECTROMETERS IN THE X-RAY REGION.  
Am. Chem. Soc. Abstracts of Papers 134, 25B (1958).  
(LADC-NN-47)
- 58-47A Onstott, Edward I. and Syverud, Alan N.  
FORMATION OF LANTHANON HYDRIDE AMALGAM SUSPENSIONS AT A LITHIUM AMALGAM CATHODE.  
Am. Chem. Soc. Abstracts of Papers 133, 34L (1958).  
(LADC-3147)

- 58-48A Orth, Charles J. and Dropesky, Bruce J.  
 DECAY OF LONG-LIVED  $\text{Sn}^{126}$ .  
 Bull. Am. Phys. Soc. 2, 3, 207 (1958). (LADC-3274)
- 58-49A Ott, Donald G.  
 (5-PHENYL-2-OXAZOLYL) PYRIDES AS FLUORESCENT pH INDICATORS.  
 APPLICATION TO CHEMICAL RADIATION DOSIMETRY.  
 Am. Chem. Soc. Abstracts of Papers 133, 40-1B (1958).  
 (LADC-3192)
- 58-50A Petersen, Donald F. and Hughes, Lora Belle.  
 SERUM ENZYME CONTENT FOLLOWING X-RAY AND GAMMA-NEUTRON  
 IRRADIATION.  
 Radiation Res. 9, 1, 166 (July 1958). (LADC-3331)
- 58-51A Reavis, James G., Morgan, Arthur N., Johnson, Karl William R.,  
 Walsh, Kenneth A., and Leary, Joseph A.  
 PREPARATION OF PLUTONIUM HALIDES FOR FUSED-SALT STUDIES.  
 Am. Chem. Soc. Abstracts of Papers 133, 22-3K (1958).  
 (LADC-3243)
- 58-52A Richmond, Chester R. and Langham, Wright H.  
 METABOLIC INTERSPECIES CORRELATIONS WITH PARTICULAR REFERENCE  
 ON ALKALI METAL IONS.  
 Health Phys. 1, 223 (1958). (LADC-3476)
- 58-53A Schreiber, Raemer E.  
 NUCLEAR ROCKET PROPULSION DEVELOPMENT AT LOS ALAMOS.  
 Trans. Am. Nucl. Soc. 1, 1, 41 (1958). (LADC-3542)
- 58-54A Seagrave, John D., Simmons, James E., and Cranberg Lawrence.  
 ELASTIC SCATTERING OF FAST NEUTRONS BY TRITIUM.  
 Bull. Am. Phys. Soc. 2, 3, 338 (1958). (LADC-3458)
- 58-55A Simmons, James E., Cranberg, Lawrence, and Seagrave, John D.  
 ELASTIC SCATTERING OF FAST NEUTRONS BY  $\text{He}^3$ .  
 Bull. Am. Phys. Soc. 2, 3, 338 (1958). (LADC-3459)

- 58-56A Spalding, John F.  
RELATIVE EFFECT OF IONIZING RADIATIONS WITH DIFFERENT LINEAL  
ENERGY TRANSFER VALUES IN PRODUCING DEATH IN THE BROAD BEAN  
ROOT.  
Radiation Res. 9, 186 (1958). (LADC-3314)
- 58-57A Stovall, Emory J., Jr.  
SPECTROSCOPIC OBSERVATIONS OF PINCHED DISCHARGES.  
Bull. Am. Phys. Soc. 2, 3, 85 (1958). (LADC-3016)
- 58-58A Sydoriak, Stephen G. and Roberts, Thomas R.  
LAMBDA AND STRATIFICATION TEMPERATURES OF  $^3\text{He}$ - $^4\text{He}$  MIXTURES  
FROM PRECISION FIRST SOUND MEASUREMENTS.  
Physica 24, Suppl., S135 (1958). (LADC-3319)
- 58-59A Taylor, R. Dean and Kerr, Eugene C.  
THERMAL COEFFICIENT OF EXPANSION OF LIQUID  $\text{He}^3$  FROM 0.55 TO  
 $1^\circ\text{K}$ .  
Physica 24, Suppl., S133 (1958). (LADC-3366)
- 58-60A Thomson, David B., Cranberg, Lawrence, and Levin, Jules S.  
SCATTERING OF FAST NEUTRONS BY MAGNESIUM AND BISMUTH.  
Bull. Am. Phys. Soc. 2, 3, 365 (1958). (LADC-3531)
- 58-61A Ujam, Stanislaw M.  
FIXTURE USES OF FUTURE COMPUTERS.  
Am. Chem. Soc. Abstracts of Papers 133, 33-4K (1958).  
(LADC-3312)
- 58-62A Ungnade, Herbert E. and Kissinger, Leonard W.  
NITRATION OF  $\alpha$ -OXIMINO ESTERS AND ACIDS.  
Am. Chem. Soc. Abstracts of Papers 134, 92P (1958)  
(LADC-3407)
- 58-63A Wagner, John J., Carter, Robert E., Reines, Frederick, and  
Wyman, Marvin Eugene.  
ELECTRON SPECTRUM FROM  $\text{U}^{235}$  FISSION FRAGMENTIS FROM 1 TO 8  
MEV.  
Bull. Am. Phys. Soc. 2, 3, 228 (1958). (LADC-3273)

- 58-64A Wegner, Harvey E. and Hall, W. Stanley.  
ELASTIC, INELASTIC, AND REACTION SCATTERING OF 21-MEV He<sup>3</sup>  
IONS.  
Bull. Am. Phys. Soc. 2, 3, 338 (1958). (LADC-3443)
- 58-65A Whetstone, Stanley L., Jr.  
PROMPT NEUTRON EMISSION FROM SINGLE FISSION FRAGMENTS OF  
KNOWN MASS.  
Bull. Am. Phys. Soc. 2, 3, 337 (1958). (LADC-3465)
- 58-66A Wyman, Marvin Eugene.  
B<sup>10</sup>(n,t) AND Be<sup>9</sup>(n,t) CROSS SECTIONS.  
Bull. Am. Phys. Soc. 2, 3, 187 (1958). (LADC-3271)
- 58-67A Yarnell, John, Bendt, Philip J., Kerr, Eugene C., and Arnold,  
George P.  
MEASUREMENTS OF THE TEMPERATURE DEPENDENCE OF THE EXCITATION  
SPECTRUM OF LIQUID HELIUM.  
Physica 24, Suppl., S146 (1958). (LADC-3561)
- 58-68A Young, James E.  
STRIPPING NUCLEONS FROM THE D-D REACTION.  
Bull. Am. Phys. Soc. 2, 3, 223 (1958). (LADC-3268)

- 59-1 Allen, Thomas H., Welch, Billy E., Trujillo, Theodore T., and Roberts, Jack E.  
FAT, WATER AND TISSUE SOLIDS OF THE WHOLE BODY LESS ITS BONE MINERAL.  
J. Appl. Physiol. 14, 1009-12 (1959). (LADC-3933)
- 59-2 Anderson, Ernest C.  
APPLICATIONS OF NATURAL GAMMA ACTIVITY MEASUREMENT TO MEAT.  
Food Res. 24, 605-7 (1959). (LADC-3991)
- 59-3 Anderson, Ernest C. and Langham, Wright H.  
AVERAGE POTASSIUM CONCENTRATION OF THE HUMAN BODY AS A FUNCTION OF AGE.  
Science 130, 713-4 (1959). (LADC-3795)
- 59-4 Anderson, Robert W. and Bronisz, Stanley E.  
TWINNING IN TANTALUM.  
Acta Met. 7, 645-6 (1959). (LADC-3741)
- 59-5 Argo, Harold V., Harrison, Francis B., Kruse, Herald W., and McGuire, Austin D.  
ABSORPTION OF  $\mu$  MESONS IN  $C^{12}$ .  
Phys. Rev. 114, 626-33 (1959). (LADC-3536)
- 59-6 Armstrong, Alice H. and Frye, Glenn M.  
ANTIPROTON ANNIHILATION IN NUCLEAR EMULSION.  
Nuovo Cimento, s. 10, 13, 77-84 (1959). (LADC-3270)
- 59-7 Baker, George A.  
NEW DERIVATION OF NEWTON'S IDENTITIES AND THEIR APPLICATION TO THE CALCULATION OF THE EIGENVALUES OF A MATRIX.  
J. Soc. Ind. Appl. Math. 7, 2, 143-8 (1959). (LADC-3162)

- 59-8 Baker, George A., Jr.  
NOTE ON THE SOLUTION OF THE NEUTRON DIFFUSION PROBLEM BY AN  
IMPLICIT NUMERICAL METHOD.  
Quart. Appl. Math. 17, 314-6 (1959). (LADC-3537)
- 59-9 Baker, George A., Ford, Kenneth W., and Porter, Charles E.  
OPTIMAL ACCURACY ROCKET TRAJECTORIES.  
J. Appl. Phys. 30, 1925-32 (1959). (LADC-3796)
- 59-10 Bame, Sam J., Jr., and Cubitt, Richard L.  
 $\text{Li}^6(n, t)\text{He}^4$  REACTION AT INTERMEDIATE ENERGIES.  
Phys. Rev. 114, 1580-83 (1959). (LADC-3578)
- 59-11 Bame, Sam J. and Cubitt, Richard L.  
(n,  $\gamma$ ) CROSS SECTIONS OF  $\text{Na}^{23}$ ,  $\text{I}^{127}$ , AND  $\text{Au}^{197}$ .  
Phys. Rev. 113, 256-8 (1959). (LADC-3478)
- 59-12 Barnett, Martin D., Daub, Guido H., Hayes, F. Newton, and  
Ott, Donald G.  
LIQUID SCINTILLATORS. VI. 2-ARYL- AND 2,7-DIARYLFLUORENES.  
J. Am. Chem. Soc. 81, 4583-86 (1959). (LADC-3629)
- 59-13 Battat, Morris E., Bondelid, Rollon O., Coon, James H.,  
Cranberg, Lawrence, Day, Robert B., Edeskuty, Frederick,  
Frentrop, Arthur H., Henkel, Richard L., Mills, Robert L.  
Nobles, Ralph A., Perry, Joseph E., Phillips, Donald Davis,  
Roberts, Thomas R., and Sydoriak, Stephen G.  
TOTAL NEUTRON CROSS SECTIONS OF THE HYDROGEN AND HELIUM  
ISOTOPES.  
Nucl. Phys. 12, 291-7 (1959). (LADC-3709)
- 59-14 Bayhurst, Barbara P. and Prestwood, Rene J.  
METHOD FOR ESTIMATING BETA-COUNTING EFFICIENCIES.  
Nucleonics 17, 3, 82-5 (1959). (LADC-3298)
- 59-15 Bell, George I.  
SIMPLE TREATMENT FOR EFFECTIVE RESONANCE ABSORPTION CROSS  
SECTIONS IN DENSE LATTICES.  
Nucl. Sci. Eng. 5, 138-9 (1959). (LADC-3611)

- 59-16 Bellman, Richard, Kalaba, Robert, and Wing, G. Milton.  
INVARIANT IMBEDDING AND NEUTRON TRANSPORT THEORY.  
III. NEUTRON-NEUTRON COLLISION PROCESSES.  
J. Math. Mech. 8, 249-62 (1959). (LADC-3484)
- 59-17 Bellman, Richard, Kalaba, Robert, and Wing, G. Milton.  
INVARIANT IMBEDDING AND NEUTRON TRANSPORT THEORY.  
IV. GENERALIZED TRANSPORT THEORY.  
J. Math. Mech. 8, 575-84 (1959). (LADC-3533)
- 59-18 Bendt, Philip J., Cowan, Robert D., and Yarnell, John L.  
EXCITATIONS IN LIQUID HELIUM: THERMODYNAMIC CALCULATIONS.  
Phys. Rev. 113, 1386-95 (1959). (LADC-3568)
- 59-19 Benz, Robert, Kahn, Milton, and Leary, Joseph A.  
PHASE EQUILIBRIA OF THE BINARY SYSTEM  $\text{PuCl}_3\text{-KCl}$ .  
J. Phys. Chem. 63, 1983 (1959). (LADC-3805)
- 59-20 Bergstresser, Karl S.  
SPECTROPHOTOMETRIC DETERMINATION OF NIOBIUM IN TANTALUM.  
Anal. Chem. 31, 1812-14 (1959). (LADC-3806)
- 59-21 Bjorklund, Carl W., Reavis, James G., Leary, Joseph A., and  
Walsh, Kenneth A.  
PHASE EQUILIBRIA IN THE BINARY SYSTEMS  $\text{PuCl}_3\text{-NaCl}$  AND  
 $\text{PuCl}_3\text{-LiCl}$ .  
J. Phys. Chem. 63, 1774-77 (1959). Also: Am. Chem. Soc.  
Abstracts of Papers 135, 14L (1959). (LADC-3610)
- 59-22 Blackwell, Charles D.  
SURFACE CONTAMINATION CONTROL WITH URANIUM ROLLING OPERATIONS.  
Am. Ind. Hyg. Assoc. J. 20, 92-8 (1959). (LADC-3155)
- 59-23 Blair, Alexander, Metropolis, Nicholas Constantine, von Neumann,  
John, Taub, Abraham H., and Tsingou, Mary.  
STUDY OF A NUMERICAL SOLUTION TO A TWO-DIMENSIONAL HYDRO-  
DYNAMICAL PROBLEM.  
Math. Tables Aids Comput. 13, 145-84 (1959). (LADC-3553)



- 59-24 Blumberg, Leroy N. and Leachman, Robert B.  
ANGULAR DISTRIBUTIONS OF FRAGMENTS FROM NEUTRON-INDUCED  
FISSION OF  $U^{233}$  AND  $Pu^{239}$ .  
Phys. Rev. 116, 102-6 (1959). (LADC-3771)
- 59-25 Bowersox, David F. and Leary, Joseph A.  
SOLUBILITY OF PLUTONIUM IN MERCURY.  
J. Inorg. & Nucl. Chem. 9, 108-12 (1959). (LADC-3442)
- 59-26 Boyer, Keith, Little, Edward M., Quinn, Warren E., Sawyer,  
George A., and Stratton, Thomas F.  
SOFT X-RAYS FROM A MAGNETICALLY COMPRESSED PLASMA IN SCYLLA.  
Phys. Rev. Letters 2, 279-80 (1959). (LADC-3752)
- 59-27 Brennan, Virginia.  
METHOD OF CATALOGING CHANGEABLE IBM TYPE BARS.  
J. Soc. Tech. Writers Editors, 12-15 (Oct. 1959).  
(LADC-PUB-218)
- 59-28 Brixner, Berlyn.  
HIGH-SPEED TURBINE-DRIVEN ROTATING MIRRORS: NOTES ON  
DESIGN, CONSTRUCTION, AND PERFORMANCE.  
Rev. Sci. Instr. 30, 1041-48 (1959). (LADC-3853)
- 59-29 Brownlee, Robert R. and Cox, Arthur N.  
TIME-DEPENDENT STELLAR MODELS.  
Astron. J. 64, 324-5 (1959). (LADC-3910)
- 59-30 Brundige, Edward L., Hanks, Gale S., and Taub, James M.  
EXTRUDED URANIUM WELDING WIRE PROVES BEST.  
Welding Eng. 44, 5, 58 (1959). (LADC-3449)
- 59-31 Brundige, Edward L., Kirby, Robert S., Hanks, Gale S., and  
Taub, James M.  
WELDING OF BERYLLIUM.  
Welding J., Suppl. 38, 410s-13s (1959). (LADC-3631)

- 59-32 Bryant, Ernest A., Sattizahn, James E., and Warren, Buddy.  
STRONTIUM-90 BY AN ION EXCHANGE METHOD.  
Anal. Chem. 31, 334-7 (1959). (LADC-3190)
- 59-33 Buckland, Carl W., Jr.  
INTERPRETATION OF REGULATIONS GOVERNING SHIPMENT OF RADIO-  
ACTIVE MATERIAL.  
Arch. Ind. Health 19, 33-43 (1959). (LADC-2701)
- 59-34 Bunker, Merle E., Dropesky, Bruce J., Knight, Jere D.,  
Starnner, John W., and Warren, Buddy.  
DECAY OF U<sup>240</sup> AND 7.3-MIN Np<sup>240</sup>.  
Phys. Rev. 116, 143-53 (1959). (LADC-3804)
- 59-35 Bussard, Robert W.  
NUCLEAR ROCKET PROPULSION POSSIBILITIES.  
Space Technology, Seifert, Howard S. (ed) (New York, Wiley)  
Chap. 17, p. 1-53 (1959). (LADC-3019)
- 59-36 Campbell, Evan E., Milligan, Morris F., and Lindsey, Jean A.  
DETERMINATION OF THALLIUM IN URINE AND AIR.  
Am. Ind. Hyg. Assoc. J. 20, 23-5 (1959). (LADC-3110)
- 59-37 Campbell, Evan E.  
DETERMINATION OF ZIRCONIUM IN AIR.  
Am. Ind. Hyg. Assoc. J. 20, 281-3 (1959). (LADC-3573)
- 59-38 Campbell, Evan E., Milligan, Morris F., and Miller, Helen M.  
EVALUATION OF METHODS FOR THE DETERMINATION OF HALOGENATED  
HYDROCARBONS IN AIR.  
Am. Ind. Hyg. Assoc. J. 20, 138-41 (1959). (LADC-3109)
- 59-39 Candela, George A., Hutchinson, Clyde A., Jr., and Lewis,  
W. Burton.  
MAGNETIC SUSCEPTIBILITIES OF URANIUM (IV) AND PLUTONIUM  
(IV) IONS IN CUBIC FIELDS.  
J. Chem. Phys. 30, 246-50 (1959). (LADC-3515)

- 59-40 Carter, Robert E., Reines, Frederick, Wagner, John J., and Wyman, Marvin E.  
FREE ANTINEUTRINO ABSORPTION CROSS SECTION. II. EXPECTED CROSS SECTION FROM MEASUREMENTS OF FISSION FRAGMENT ELECTRON SPECTRA.  
Phys. Rev. 113, 280-6 (1959). (LADC-3369b)
- 59-41 Cashwell, Edmond D. and Everett, Cornelius J.  
RING OF NUMBER - THEORETIC FUNCTIONS.  
Pacific J. Math. 9, 975-85 (1959). (LADC-3745)
- 59-42 Christenson, Conard W.  
CERAMIC SPONGES FOR RADIOACTIVE-WASTE DISPOSAL.  
Am. Water Works Assoc. J. 51, 388 (1959). (LADC-3594)
- 59-43 Cotter, Theodore P.  
POTENTIALITIES AND PROBLEMS OF NUCLEAR ROCKET PROPULSION.  
Aero/Space Eng. 18, 50-53 (1959). (LADC-3590)
- 59-44 Cowan, Robert E., Stoddard, Stephen D., and Nuckolls, Donald E.  
SLIP CASTING PROCESS FOR CALCIUM OXIDE.  
Bull. Am. Ceram. Soc. 38, 479 (1959). (LADC-3930)
- 59-45 Craig, Paul P., Dash, Jay G., McGuire, Austin D., Nagle, Darragh, and Reiswig, Robert D.  
NUCLEAR RESONANCE ABSORPTION OF GAMMA RAYS IN Ir<sup>191</sup>.  
Phys. Rev. Letters 3, 221-3 (1959). (LADC-3950)
- 59-46 Cranberg, Lawrence and Smith, Ronald K.  
BREAKUP OF DEUTERONS BY PROTONS.  
Phys. Rev. 113, 587-9 (1959). (LADC-3530)
- 59-47 Cranberg, Lawrence.  
POLARIZATION OF NEUTRONS FROM Li<sup>7</sup>(p,n)Be<sup>7</sup> AND FROM n-d SCATTERING.  
Phys. Rev. 114, 174-5 (1959). (LADC-3527)

- 59-48 Cranberg, Lawrence and Henshall, James B.  
SMALL-APERTURE DIAPHRAGMS IN ION-ACCELERATOR TUBES.  
J. Appl. Phys. 30, 708-10 (1959). (LADC-3526)
- 59-49 Crawford, Crayton M.  
PRECISION ABSORPTIOMETRY.  
Anal. Chem. 31, 343-8 (1959). (LADC-2994)
- 59-50 Cromer, Don T. and Larson, Allen C.  
CRYSTAL STRUCTURE OF  $Ce_2Ni_7$ .  
Acta Cryst. 12, 855-9 (1959). (LADC-3756)
- 59-51 Cromer, Don T.  
CRYSTAL STRUCTURE OF LiAs.  
Acta Cryst. 12, 36-41 (1959). (LADC-1960)
- 59-52 Cromer, Don T.  
CRYSTAL STRUCTURE OF NaSb.  
Acta Cryst. 12, 41-5 (1959). (LADC-NN-59)
- 59-53 Cromer, Don T. and Roof, Raymond B.  
CRYSTAL STRUCTURE OF PuNi.  
Acta Cryst. 12, 942-3 (1959). (LADC-3812)
- 59-54 Cromer, Don T. and Olsen, Clayton E.  
CRYSTAL STRUCTURES OF  $PuNi_3$  AND  $CeNi_3$ .  
Acta Cryst. 12, 689-94 (1959). (LADC-3587)
- 59-55 Day, Robert B., Mills, Robert L., Perry, Joseph E., and Scherb, Frank.  
TOTAL CROSS SECTION FOR n-p SCATTERING AT 20 MEV.  
Phys. Rev. 114, 209-14 (1959). (LADC-1801)
- 59-56 Dickinson, James M. and Richardson, Lee S.  
CONSTITUTION OF RHENIUM-MOLYBDENUM ALLOYS.  
Trans. Am. Soc. Metals. 51, 1055-71 (1959). (LADC-2985)

- 59-57 Dickinson, James M. and Richardson, Lee S.  
 CONSTITUTION OF RHENIUM-TUNGSTEN ALLOYS.  
 Trans. Am. Soc. Metals 51, 758-77 (1959). (LADC-3371)
- 59-58 Dreicer, Harry.  
 ELECTRON AND ION RUNAWAY IN A FULLY IONIZED GAS. I.  
 Phys. Rev. 115, 238-49 (1959). (LADC-3714)
- 59-59 Duff, Russell E. and Davidson, Norman.  
 CALCULATION OF REACTION PROFILES BEHIND STEADY SHOCK WAVES.  
 II. THE DISSOCIATION OF AIR.  
 J. Chem. Phys. 31, 1018-27 (1959). Also: Bull. Am. Phys.  
 Soc. 2, 4, 195 (1959). (LADC-3548)
- 59-60 Duff, Russell E.  
 SHOCK-TUBE PERFORMANCE AT LOW INITIAL PRESSURE.  
 Phys. Fluids 2, 207-16 (1959). (LADC-3547)
- 59-61 Durham, Franklin P.  
 SOLID-CORE NUCLEAR-ROCKET DESIGN.  
 Astronautics 4, 26-7 (Oct. 1959). (LADC-3947)
- 59-62 Edeskuty, Frederick J.  
 LABORATORY GAS COMPRESSOR FOR PRESSURES UP TO 10,000 P.S.I.  
 Ind. Eng. Chem. 51, 69-70A (Apr. 1959). (LADC-3227)
- 59-63 Ellinger, Finley H., Elliott, Reed O., and Cramer, Eugene M.  
 PLUTONIUM - URANIUM SYSTEM.  
 J. Nucl. Mater. 1, 233-43 (1959). (LADC-2656a)
- 59-64 Elliott, Dana E. and Knowles, Charles M.  
 ON THE RADIOGRAPHIC MERITS OF THE 1000 PKV RESONANT TRANS-  
 FORMER AND THE VAN DE GRAAFF X-RAY GENERATORS.  
 Nondestructive Testing 17, 205-9 (1959). (LADC-3406)
- 59-65 Elmore, William C., Tuck, James L. and Watson, Kenneth M.  
 ON THE INERTIAL-ELECTROSTATIC CONFINEMENT OF A PLASMA.  
 Phys. Fluids 2, 239-46 (1959). (LADC-3672)

- 59-66 Evans, Martha W. and Harlow, Francis H.  
CALCULATION OF UNSTEADY SUPERSONIC FLOW PAST A CIRCULAR  
CYLINDER.  
J. Am. Rocket Soc. 29, 46-8 (1959). (LADC-3436)
- 59-67 Farr, John D., Huber, Elmer J., Jr., Head, Earl L., and  
Holley, Charles E., Jr.  
PREPARATION OF URANIUM MONOCARBIDE AND ITS HEAT OF FORMATION.  
J. Phys. Chem. 63, 1455-56 (1959). (LADC-3711)
- 59-68 Flamand, Gerard and Ford, Kenneth W.  
MUON CAPTURE BY  $C^{12}$  AND BETA DECAY OF  $B^{12}$ .  
Phys. Rev. 116, 1591-96 (1959). (LADC-NN-5)
- 59-69 Foldy, Leslie L., Ford, Kenneth W., and Yennie, Donald R.  
EFFECT OF RECOIL ON THE ELASTIC SCATTERING OF HIGH-ENERGY  
ELECTRONS BY ZERO-SPIN NUCLEI.  
Phys. Rev. 113, 1147-53 (1959). (LADC-3394)
- 59-70 Ford, Kenneth W. and Wheeler, John A.  
APPLICATION OF SEMICLASSICAL SCATTERING ANALYSIS.  
Ann. Phys. 7, 287-322 (1959). (LADC-3296)
- 59-71 Ford, Kenneth W. and Konopinski, Emil John.  
EVALUATION OF SLATER INTEGRALS WITH HARMONIC OSCILLATOR WAVE  
FUNCTIONS.  
Nucl. Phys. 9, 218-24 (1959). (LADC-3502)
- 59-72 Ford, Kenneth W., Hill, David Lawrence, Wakano, Masami, and  
Wheeler, John A.  
QUANTUM EFFECTS NEAR A BARRIER MAXIMUM.  
Ann. Phys. 7, 239-58 (1959). (LADC-3294)
- 59-73 Ford, Kenneth W. and Wheeler, John A.  
SEMICLASSICAL DESCRIPTION OF SCATTERING.  
Ann. Phys. 7, 259-86 (1959). (LADC-3295)

- 59-74 Fowler, Eric B. and Christenson, Conard W.  
EFFECT OF SOIL NUTRIENTS ON PLANT UPTAKE OF FALLOUT. SOIL  
CALCIUM AND POTASSIUM DECREASE STRONTIUM-90/CALCIUM AND  
CESIUM-137/POTASSIUM RATIOS IN PLANTS.  
Science 130, 1689-93 (1959). (LADC-3218)
- 59-75 Fowler, Eric B. and Christenson, Conard W.  
FACTORS AFFECTING UPTAKE OF RADIOACTIVE CESIUM BY LETTUCE,  
GRASS, AND ALFAFA.  
J. Agr. Food Chem. 7, 847-9 (1959). Also: Am. Chem. Soc.  
Abstracts of Papers 135, 10-11A (1959). (LADC-3652)
- 59-76 Fowler, Eric B.  
HOW PLANT FOODS PROTECT PLANTS.  
Plant Food Preview, National Plant Food Institute,  
Washington, D. C., p. 2-7 (1959). (LADC-3842)
- 59-77 Gardner, Ross D. and Hues, Alvin D.  
SPECTROPHOTOMETRIC DETERMINATION OF RHODIUM IN URANIUM-  
RHODIUM ALLOYS.  
Anal. Chem. 31, 1488-89 (1959). (LADC-3778)
- 59-78 Garn, Wray B.  
DETERMINATION OF THE UNREACTED HUGONIOT FOR LIQUID TNT.  
J. Chem. Phys. 30, 819-22 (1959). (LADC-3477)
- 59-79 Gilland, Jerry R.  
TRANSISTOR CIRCUITRY FOR RADIATION COUNTING.  
Rev. Sci. Instr. 30, 479-84 (1959). (LADC-3689)
- 59-80 Goad, Walter B. and Johnston, Robert R.  
MONTE CARLO METHOD FOR CRITICALITY PROBLEMS.  
Nucl. Sci. Eng. 5, 371-5 (1959). (LADC-3636)
- 59-81 Goldstein, Louis.  
ON THE THEORY OF LIQUID AND SOLID He<sup>3</sup>.  
Ann. Phys. 8, 390-434 (1959). (LADC-3758)

- 59-82 Gould, R. Gordon.  
RELATIONSHIP BETWEEN THYROID HORMONES AND CHOLESTEROL  
BIOSYNTHESIS AND TURNOVER.  
Hormones Atherosclerosis 75-88 (1959). (LADC-3429)
- 59-83 Gould, R. Gordon, Bell, Virginia L., and Lilly, Edith H.  
STIMULATION OF CHOLESTEROL BIOSYNTHESIS FROM ACETATE IN RAT  
LIVER AND ADRENALS BY WHOLE BODY X-IRRADIATION.  
Am. J. Physiol. 196, 1231-37 (1959). (LADC-3677)
- 59-84 Graham, Ellis R.  
DETERMINING Sr<sup>90</sup> IN SOIL BY ELECTRODIALYSIS AND ION EXCHANGE  
METHOD.  
Soil Sci. 88, 11-5 (1959). (LADC-3504)
- 59-85 Graham, Ellis R.  
WEATHERING OF FALLOUT.  
Science 129, 1276-77 (1959). (LADC-3565)
- 59-86 Green, Walter V., Smith, Morton C., and Olson, Donald M.  
SHORT-TIME CREEP-RUPTURE BEHAVIOR OF MOLYBDENUM AT HIGH  
TEMPERATURES.  
Trans. Am. Inst. Mining, Met., Petrol. Eng. 215, 1061-66  
(1959). (LADC-3580)
- 59-87 Green, Walter V.  
SHORT-TIME CREEP-RUPTURE BEHAVIOR OF TUNGSTEN AT 2500° TO  
2800°C.  
Trans. Am. Inst. Mining, Met., Petrol. Eng. 215, 1057-60  
(1959). (LADC-3579)
- 59-88 Griffin, James J.  
ENERGY DEPENDENCE OF FISSION FRAGMENT ANISOTROPY.  
Phys. Rev. 116, 107-18 (1959). (LADC-3257)
- 59-89 Griffin, James J. and Rich, Marvin T.  
MOMENTS OF INERTIA OF EVEN-EVEN RARE EARTHS.  
Phys. Rev. Letters 3, 342-3 (1959). (LADC-3731)



- 59-90 Grilly, Edward R. and Mills, Robert L.  
MELTING PROPERTIES OF He<sup>3</sup> AND He<sup>4</sup> UP TO 3500 kg/cm<sup>2</sup>.  
Ann. Phys. 8, 1-23 (1959). (LADC-2932)
- 59-91 Grover, George M.  
LOS ALAMOS PLASMA THERMOCOUPLE.  
Nucleonics 17, 7, 54-5 (1959). (LADC-3819)
- 59-92 Haddad, Eugene and Warren, John L.  
COUNTER TELESCOPE EFFICIENCY CALCULATION FOR A NONISOTROPIC  
NEUTRON SOURCE.  
Rev. Sci. Instr. 30, 664-9 (1959). (LADC-3762)
- 59-93 Hagerman, Donald C. and Williams, Arthur H.  
HIGH-POWER VACUUM SPARK GAP.  
Rev. Sci. Instr. 30, 182-3 (1959). (LADC-3496)
- 59-94 Hammond, R. Philip, Wykoff, Walter R., Busey, Harold M., Rogers,  
John D., Durham, Franklin P., and Chapman, Kenneth R.  
TURRET - A TEST OF UNCLAD FUEL.  
Nucleonics 17, 12, 106-9 (1959). (LADC-NN-100)
- 59-95 Harris, Payne S.  
THE ACUTE EFFECTS OF NUCLEAR RADIATIONS FROM NUCLEAR WEAPONS.  
In Hearings before the special Subcommittee on Radiation  
of the Joint Committee on Atomic Energy, 86th Congress,  
First session on biological and environmental effects of  
nuclear war. p. 267-73 (June 22-26, 1959). (LADC-3883)
- 59-96 Heller, Leon.  
EQUILIBRIUM STATISTICAL MECHANICS OF DISSOCIATING DIATOMIC  
GASES.  
Phys. Fluids 2, 147-52 (1959). (LADC-3630)
- 59-97 Hockett, John E.  
COMPRESSION TESTING AT CONSTANT TRUE STRAIN RATES.  
Am. Soc. Testing Mater. Proc. 59, 1309-19 (1959).  
(LADC-2988)

- 59-98 Hyatt, Edwin C., Schulte, Harry F., Mitchell, Robert N., and Tangman, Edward Peter.  
BERYLLIUM: HAZARD EVALUATION AND CONTROL IN RESEARCH AND DEVELOPMENT OPERATIONS.  
Arch. Ind. Health 19, 211-20 (1959). (LADC-3534)
- 59-99 Hyatt, Edwin C.  
HEALTH HAZARDS ASSOCIATED WITH ROLLING NORMAL AND ENRICHED URANIUM - EVALUATION AND CONTROL.  
Am. Ind. Hyg. Assoc. J. 20, 2, 82-91 (1959). (LADC-3146)
- 59-100 Hyatt, Edwin C., Moss, William D., and Schulte, Harry F.  
PARTICLE SIZE STUDIES ON URANIUM AEROSOLS FROM MACHINING AND METALLURGY OPERATIONS.  
Am. Ind. Hyg. Assoc. J. 20, 99-107 (1959). (LADC-2621)
- 59-101 Igo, George.  
OPTICAL-MODEL ANALYSIS OF EXCITATION FUNCTION DATA AND THEORETICAL REACTION CROSS SECTIONS FOR ALPHA PARTICLES.  
Phys. Rev. 115, 1665-74 (1959). (LADC-3775)
- 59-102 Withdrawn
- 59-103 Jarmie, Nelson and Silbert, Myron G.  
OXYGEN-20.  
Phys. Rev. Letters 3, 50 (1959). (LADC-3866)
- 59-104 Jarmie, Nelson and Allen, Robert C.  
T(p,p)T SCATTERING NEAR THE T(p,n)He<sup>3</sup> THRESHOLD.  
Phys. Rev. 114, 176-8 (1959). (LADC-3558)
- 59-105 Johnson, Karl W. R.  
PREPARATION OF HIGH-PURITY PLUTONIUM METAL.  
J. Inorg. & Nucl. Chem. 9, 200-3 (1959). (LADC-3037)

- 59-106 Jones, Llewellyn H.  
 DETERMINATION OF U-O BOND DISTANCE IN URANYL COMPLEXES FROM  
 THEIR INFRARED SPECTRA.  
 Spectrochim. Acta 15, 409-11 (1959). (LADC-3684)
- 59-107 Jones, Llewellyn H. and McDowell, Robin S.  
 FORCE CONSTANTS OF METHANE. INFRARED SPECTRA AND THERMO-  
 DYNAMIC FUNCTIONS OF ISOTOPIC METHANES.  
 J. Mol. Spectr. 3, 632-53 (1959). (LADC-3637)
- 59-108 Jones, Llewellyn H.  
 ORDER OF ATOMS IN LINEAR METAL DICYANIDES.  
 Spectrochim. Acta 15, 156-7 (1959). (LADC-3633)
- 59-109 Jordan, Harry S. and Welty, Carl G.  
 VENTURI SCRUBBER INSTALLATION FOR THE REMOVAL OF FISSION  
 PRODUCTS FROM AIR.  
 Am. Ind. Hyg. Assoc. J. 20, 332-6 (1959). (LADC-3582)
- 59-110 Keenan, Thomas K.  
 AMERICIUM AND CURIUM.  
 J. Chem. Educ. 36, 27-31 (1959). (LADC-3166)
- 59-111 Keepin, G. Robert.  
 PERIOD-REACTIVITY DETERMINED DIRECTLY FROM PROMPT-BURST  
 NEUTRON DECAY DATA.  
 Nucl. Sci. Eng. 5, 132-6 (1959). (LADC-3491)
- 59-112 Kempter, Charles P. and Elliott, Reed O.  
 THERMAL EXPANSION OF (UN), (UO<sub>2</sub>), (UO<sub>2</sub>·ThO<sub>2</sub>), AND (ThO<sub>2</sub>).  
 J. Chem. Phys. 30, 1524-26 (1959). (LADC-3549)
- 59-113 Kempter, Charles P., McGuire, Joseph C., and Nadler, Marion R.  
 URANIUM MONONITRIDE.  
 Anal. Chem. 31, 156-7 (1959). (LADC-3246)

- 59-114 Kerman, Arthur K., McManus, Hugh, and Thaler, Raphael M.  
POLARIZATION OF NUCLEONS IN INELASTIC SCATTERING FROM NUCLEI.  
Phys. Rev. Letters 2, 172-4 (1959). (LADC-3802)
- 59-115 Kerr, Vernon N., Hayes, Francis Newton, Ott, Donald G., and  
Hansbury, Elizabeth.  
LIQUID SCINTILLATORS. VII. 2,5-DIARYL SUBSTITUTED THIAZOLES  
AS LIQUID SCINTILLATOR SOLUTES.  
J. Org. Chem. 24, 1861-64 (1959). (LADC-3780)
- 59-116 Kerr, Vernon N., Hayes, Francis Newton, Ott, Donald G., Lier,  
Ruth, and Hansbury, Elizabeth.  
LIQUID SCINTILLATORS. VIII. THE EFFECT OF THE DIALKYLAMINO  
GROUP.  
J. Org. Chem. 24, 1864-66 (1959). (LADC-3781)
- 59-117 Kewish, Ralph W., Bard, Richard J., Bertino, James P., Fry,  
Otto E., Hayter, Sidney W., Hill, Franklin J., Kelchner,  
Burton L., and Savage, Albert W., Jr.  
PREPARATION OF HIGH-PURITY URANIUM METAL BY THE BOMB  
REDUCTION OF URANIUM TETRAFLUORIDE WITH CALCIUM.  
Trans. Am. Inst. Mining, Met., Petrol. Eng. 215, 425-9 (1959).  
(LADC-2987)
- 59-118 Kilpatrick, John E.  
TERM SERIES ROTATING-VIBRATING DIATOMIC MOLECULE BY PER-  
TURBATION.  
J. Chem. Phys. 30, 801-5 (1959). (LADC-3528)
- 59-119 Kissinger, Leonard W. and Ungnade, Herbert E.  
ALPHA-NITROACID CHLORIDES. PREPARATION AND PROPERTIES.  
J. Org. Chem. 24, 1244-46 (1959). Also: Am. Chem. Soc.  
Abstracts of Papers 136, 58P (1959). (LADC-3744)
- 59-120 Kloepper, Robert M., Day, Robert B., and Lind, David A.  
LIFETIMES OF THE FIRST EXCITED  $O^+$  STATES OF  $Ca^{40}$  AND  $Zr^{90}$ .  
Phys. Rev. 114, 240-9 (1959). (LADC-2644)

- 59-121 Kmetko, Edward A.  
ANOMALOUS THERMIONIC EMISSION OF SOME BORIDES AND CARBIDES  
OF RARE EARTH AND TRANSITION ELEMENTS.  
Phys. Rev. 116, 895-6 (1959). (LADC-3879)
- 59-122 Knight, Jere D., Hoffman, Darleane C., Dropesky, Bruce J.,  
and Frasco, David L.  
RADIATIONS OF  $^{93}\text{Y}$  AND  $^{94}\text{Y}$  AND HALF-LIVES OF  $^{93}\text{Sr}$  AND  $^{94}\text{Sr}$ .  
J. Inorg. & Nucl. Chem. 10, 183-97 (1949). (LADC-3581)
- 59-123 Koch, Leonard J. and Paxton, Hugh C.  
FAST REACTORS.  
Ann. Rev. Nucl. Sci. 9, 437-72 (1959). (LADC-3789)
- 59-124 Langham, Wright H. and Anderson, Ernest C.  
BIOSPHERIC CONTAMINATION FROM NUCLEAR WEAPONS TESTS THROUGH  
1958.  
Hearings before the Special Subcommittee on radiation of  
the Joint Committee on Atomic Energy, 86th Congress,  
First Session on fallout from nuclear weapons tests 2,  
1067-1169 (May 5-8, 1959). (LADC-3820)
- 59-125 Langham, Wright Haskell and Anderson, Ernest C.  
 $\text{Cs}^{137}$  BIOSPHERIC CONTAMINATION FROM NUCLEAR WEAPONS TESTS.  
Health Phys. 2, 30-48 (1959). (LADC-3513)
- 59-126 Langham, Wright H.  
IMPLICATIONS OF SPACE RADIATIONS IN MANNED SPACE FLIGHTS.  
Aerospace Med. 30, 410-7 (1959). (LADC-3618)
- 59-127 Langham, Wright H.  
PHYSIOLOGY AND TOXICOLOGY OF PLUTONIUM-239 AND ITS INDUSTRIAL  
MEDICINE CONTROL.  
Health Phys. 2, 172-85 (1959). Also: Proc. Hot Lab.  
Equip. Conf., 7th, Cleveland, p. 256-75 (1959).  
(LADC-3674)
- 59-128 Laquer, Henry L.  
ELASTIC CONSTANTS OF POLYCRYSTALLINE URANIUM.  
Nucl. Sci. Eng. 4, 197-9 (1959). (LADC-3607)

- 59-129 Laquer, Henry L., Sydoriak, Stephen G., and Roberts, Thomas R.  
SOUND VELOCITY AND ADIABATIC COMPRESSIBILITY OF LIQUID  
HELIUM THREE.  
Phys. Rev. 113, 417-22 (1959). (LADC-2930)
- 59-130 Leary, Joseph A., Morgan, Arthur N., and Maraman, William J.  
PLUTONIUM PEROXIDE PRECIPITATION.  
Ind. Eng. Chem. 51, 27-31 (1959). (LADC-3244)
- 59-131 Lehner, Joseph.  
FOURIER COEFFICIENTS OF AUTOMORPHIC FORMS ON HOROCYCLIC  
GROUPS, II.  
Mich. Math. J. 6, 173-93 (1959). (LADC-3118)
- 59-132 Lewis, Harold W. and Reitz, John Richard.  
"OPEN-CIRCUIT" VOLTAGES IN THE PLASMA THERMOCOUPLE.  
J. Appl. Phys. 30, 1838-39 (1959). (LADC-3943)
- 59-133 Lewis, Harold W. and Reitz, John R.  
THERMOELECTRIC PROPERTIES OF THE PLASMA DIODE.  
J. Appl. Phys. 30, 1439-45 (1959). (LADC-3661)
- 59-134 Lilienthal, James R.  
LOS ALAMOS ALPHA-GAMMA CELLS.  
Proc. Hot Lab. Equip. Conf., 7th, Cleveland, p. 292-304  
(1959). (LADC-3648)
- 59-135 Longmire, Conrad L., Nagle, Darragh E., and Ribe, Fred L.  
ION CONFINEMENT BY ROTATION IN MAGNETIC MIRROR GEOMETRY.  
Phys. Rev. 114, 1187-91 (1959). (LADC-3644)
- 59-136 Lovberg, Ralph H.  
USE OF MAGNETIC PROBES IN PLASMA DIAGNOSTICS.  
Ann. Phys. 8, 311-24 (1959). (LADC-3807)
- 59-137 Manley, John H.  
SCIENCE AND CRISIS.  
Bull. Atomic Scientists 15, 114-7 (1959). (LADC-3379)

- 59-138 Marion, Jerry B., Levin, Jules S., and Cranberg, Lawrence.  
ELASTIC AND NONELASTIC NEUTRON CROSS SECTIONS FOR BERYLLIUM.  
Phys. Rev. 114, 1584-89 (1959). (LADC-3682)
- 59-139 Marion, Jerry B. and Levin, Jules S.  
INVESTIGATION OF THE  $\text{Be}^9(p,n)\text{B}^9$  AND  $\text{Be}^9(p,\alpha,\gamma)\text{Li}^6$  REACTIONS.  
Phys. Rev. 115, 144-9 (1959). Also: Bull. Am. Phys. Soc.  
2, 4, 16 (1959). (LADC-3694)
- 59-140 Mark, J. Carson.  
DETECTION OF NUCLEAR EXPLOSIONS.  
Nucleonics 17, 8, 64-73 (1959). (LADC-NN-45)
- 59-141 Meyer, Dean D.  
RADIOLOGICAL SAFETY PROBLEMS ASSOCIATED WITH ALPHA EMITTERS.  
Proc. Hot Lab. Equip. Conf., 7th, Cleveland, p. 276-83  
(1959). (LADC-3638)
- 59-142 Meyer-Berkhout, Ulrich, Ford, Kenneth W., and Green, Alex E. S.  
CHARGE DISTRIBUTIONS OF NUCLEI OF THE  $1p$  SHELL.  
Am. Phys. 8, 119-71 (1959). (LADC-PUB-217)
- 59-143 Milligan, Morris F.  
RADIATION HYGIENE CHEMISTRY.  
Radiation Hygiene Handbook, Blatz, H. (ed) (McGraw-Hill,  
New York), Sect. 16, p. 1-24 (1959). (LADC-NN-46)
- 59-144 Moore, Philip F.  
INTERMEDIATE LEVEL RADIOCHEMISTRY HOT CELL.  
Proc. Hot Lab. Equip. Conf., 7th, Cleveland, p. 81-6 (1959).  
(LADC-3653)
- 59-145 Murphy, Daniel J.  
TRANSFORMATION CHARACTERISTICS OF DILUTE TERNARY ALLOYS OF  
URANIUM.  
Tran. Am. Soc. Metals 51, 683-96 (1959). (LADC-2724)

- 59-146 Nadler, Marion R. and Kempter, Charles P.  
CRYSTALLOGRAPHIC DATA. 186. LITHIUM.  
Anal. Chem. 31, 2109 (1959). (LADC-3978)
- 59-147 Nadler, Marion R. and Kempter, Charles P.  
CRYSTALLOGRAPHIC DATA. NIOBIUM.  
Anal. Chem. 31, 1922 (1959). (LADC-3925).
- 59-148 Nagle, Darragh E., Quinn, Warren E., Riesenfeld, Werner B.,  
and Leland, Wallace.  
ION TEMPERATURE IN SCYLLA, AS DETERMINED FROM THE REACTION  
D(d,p)T.  
Phys. Rev. Letters 3, 318-20 (1959). (LADC-4004)
- 59-149 Neher, Leland K.  
NOTES ON THE DESIGN OF GLOW DISCHARGE VOLTAGE STABILIZERS  
FOR PHOTOMULTIPLIER TUBE POWER SUPPLIES.  
Nucl. Instr. Methods 5, 95-100 (1959). (LADC-3673)
- 59-150 Newton, Thomas W.  
KINETICS OF THE REACTION BETWEEN Pu(IV) AND U(IV).  
J. Phys. Chem. 63, 1493-97 (1959). (LADC-3754)
- 59-151 Newton, Thomas W. and Rabideau, Sherman W.  
REVIEW OF THE KINETICS OF THE AQUEOUS OXIDATION-REDUCTION  
REACTIONS OF URANIUM, NEPTUNIUM AND PLUTONIUM.  
J. Phys. Chem. 63, 365-70 (1959). (LADC-3291)
- 59-152 Northrop, John A., Stokes, Richard H., and Boyer, Keith.  
MEASUREMENT OF THE FISSION THRESHOLDS OF Pu<sup>239</sup>, U<sup>233</sup>, U<sup>235</sup>,  
AND U<sup>238</sup> USING THE (d,p) REACTION.  
Phys. Rev. 115, 1277-86 (1959). (LADC-3743)
- 59-153 Onstott, Edward I.  
SEPARATION OF THE LANTHANONS AT AMALGAM CATHODES. III.  
ELECTROCHEMICAL FRACTIONATION OF THE LANTHANONS AT A LITHIUM  
AMALGAM CATHODE.  
J. Am. Chem. Soc. 81, 4451-58 (1959). (LADC-3098)



- 59-154 Ott, Donald G., Richmond, Chester R., Trujillo, Theodore T., and Foreman, Harry.  
 Cab-0-Sil SUSPENSIONS FOR LIQUID-SCINTILLATION COUNTING.  
 Nucleonics 17, 9, 106-8 (1959). (LADC-3827)
- 59-155 Pasta, John R. and Ulam, Stanislaw M.  
 HEURISTIC NUMERICAL WORK IN SOME PROBLEMS OF HYDRODYNAMICS.  
 Math. Tables Aids Comput. 13, 1-12 (1959). (LADC-3362)
- 59-156 Paxton, Hugh C., Baker, Richard D., Maraman, William J., and Reider, Roy.  
 LOS ALAMOS CRITICAL ACCIDENT, DECEMBER 30, 1958.  
 Nucleonics 17, 4, 107-8, 151-3 (1959). (LADC-3719)
- 59-157 Pidd, Robert W., Grover, George M., Salmi, Ernest W., Roehling, Duane J., and Erickson, George F.  
 CHARACTERISTICS OF A PLASMA THERMOCOUPLE.  
 J. Appl. Phys. 30, 1861-65 (1959). (LADC-3785)
- 59-158 Pidd, Robert W., Grover, George M., Roehling, Duane J., Salmi, Ernest W., Farr, John D., Krikorian, Nerses H., and Witteman, Willard G.  
 CHARACTERISTICS OF UC, ZrC, AND (ZrC) (UC) AS THERMIONIC EMITTERS.  
 J. Appl. Phys. 30, 1575-78 (1959). (LADC-3695)
- 59-159 Pimbley, George H., Jr.  
 SOLUTION OF AN INITIAL VALUE PROBLEM FOR THE MULTI-VELOCITY NEUTRON TRANSPORT EQUATION WITH A SLAB GEOMETRY.  
 J. Math. Mech. 8, 837-66 (1959). (LADC-3282)
- 59-160 Rabideau, Sherman W. and Kline, Robert J.  
 KINETICS OF THE REACTION BETWEEN PLUTONIUM(VI) AND TITANIUM (III) IN PERCHLORATE SOLUTION.  
 J. Phys. Chem. 63, 1502-05 (1959). (LADC-3650b)
- 59-161 Regas, Stelios, Murphy, Arthur G., and Anderson, Ernest C.  
 RCL RATIO COMPUTER.  
 RCL Counter 6, 1 (Oct. 1959). (LADC-NN-26)

- 59-162 Reines, Frederick and Cowan, Clyde L.  
 FREE ANTINEUTRINO ABSORPTION CROSS SECTION. I. MEASUREMENT  
 OF THE FREE ANTINEUTRINO ABSORPTION CROSS SECTION BY PROTONS.  
 Phys. Rev. 113, 273-9 (1959). (LADC-3369a)
- 59-163 Withdrawn
- 59-164 Rogers, Raymond N. and Yasuda, Stanley K.  
 RAPID MICRODETERMINATION OF FLUORINE IN ORGANIC COMPOUNDS.  
 Anal. Chem. 31, 616-7 (1959). (LADC-3503)
- 59-165 Rogers, Raymond N.  
 SIMPLE DETERMINATION OF URANIUM IN GRAPHITE.  
 Anal. Chem. 31, 2071-72 (1959). (LADC-3813)
- 59-166 Ronzio, Anthony R.  
 METAL LOADED SCINTILLATOR SOLUTIONS.  
 Intern. J. Appl. Radiation Isotopes 4, 196-200 (1959).  
 (LADC-3108)
- 59-167 Roof, Raymond B., Jr.  
 EXPERIMENTAL DETERMINATION OF ATOMIC SCATTERING FACTORS.  
 J. Appl. Phys. 30, 1599-1603 (1959). (LADC-3690a)
- 59-168 Roof, Raymond B.  
 X-RAY ABSORPTION COEFFICIENTS OF THORIUM, URANIUM, AND  
 PLUTONIUM - EXPERIMENTAL DETERMINATION AND THEORETICAL  
 INTERPRETATION.  
 Phys. Rev. 113, 820-5 (1959). (LADC-3359 and LADC-3360)
- 59-169 Roof, Raymond B.  
 X-RAY COEFFICIENTS OF THE ELEMENTS WITH  $Z = 1$  TO 17 FOR  
 $Mo K\alpha$  RADIATION.  
 Phys. Rev. 113, 826-7 (1959). (LADC-3365)

- 59-170 Rosen, Louis and Brolley, John E.  
 TIME-REVERSAL INVARIANCE AND PARITY CONSERVATION IN STRONG  
 INTERACTIONS.  
 Phys. Rev. Letters 2, 98-101 (1959). (LADC-3635)
- 59-171 Rosenthal, Stanley L.  
 NOTE ON THE INTERDIURNAL VARIABILITY OF METEOROLOGICAL  
 RESEARCH.  
 J. Meteorol. 16, 691-2 (1959). (LADC-3671)
- 59-172 Rosenthal, Stanley L.  
 ON THE MEAN MAGNITUDE OF THE ISOBARIC ASCENDENT OF CONTOUR  
 HEIGHT.  
 J. Meteorol. 16, 689-90 (1959). (LADC-3659)
- 59-173 Rosenzweig, Abraham and Cromer, Don T.  
 THE CRYSTAL STRUCTURE OF  $\text{KAu}(\text{CN})_2$ .  
 Acta Cryst. 12, 709-12 (1959). (LADC-3666)
- 59-174 Sabine, Jean C.  
 ERYTHROCYTE CHOLINESTERASE TITERS IN HEMATOLOGIC DISEASE  
 STATES.  
 Am. J. Med. 27, 81-96 (1959). (LADC-2566)
- 59-175 Salsburg, Zevi W., Jacobson, Jack D., Fickett, Wildon, and  
 Wood, William Wayne.  
 APPLICATION OF THE MONTE CARLO METHOD TO THE LATTICE-GAS  
 MODEL. I. TWO-DIMENSIONAL TRIANGULAR LATTICE.  
 J. Chem. Phys. 30, 65-72 (1959). (LADC-3517)
- 59-176 Sampson, Douglas H.  
 OPACITY AT HIGH TEMPERATURES DUE TO COMPTON SCATTERING.  
 Astrophys. J. 129, 734-51 (1959). (LADC-3557)
- 59-177 Sawyer, George A., Scott, Peter Leslie, and Stratton, Thomas F.  
 EXPERIMENTAL DEMONSTRATION OF HYDROMAGNETIC WAVES IN AN  
 IONIZED GAS.  
 Phys. Fluids 2, 47-51 (1959). (LADC-3593)

- 59-178 Scharff-Goldhaber, Gertrude, Goodman, Albert, and Silbert, Myron.  
 DECAY OF OXYGEN 20.  
 Phys. Rev. Letters 4, 25-7 (1959). (LADC-4115)
- 59-179 Schonfeld, Fred W., Cramer, Eugene M., Miner, William N., Ellinger, Finley H., and Coffinberry, Arthur S.  
 PLUTONIUM CONSTITUTIONAL DIAGRAMS.  
 Progr. Nucl. Energy, Ser. V. Metallurgy and Fuels 2, 579-99 (1959). (LADC-2656b)
- 59-180 Schreiber, Raemer E.  
 NUCLEAR-ROCKET PROPULSION.  
 Air Univ. Quart. Rev. 11, 3/4, 128-37 (1959). (LADC-4229)
- 59-181 Schuch, Robert L., Williams, D. Lloyd, and Hayes, F. Newton.  
 WIDE RANGE GAMMA-NEUTRON MONITOR.  
 Proc. ISA Nat. Nucl. Instr. Symp., Idaho Falls, Idaho, June 1959, p. 95-8 (1959). (LADC-3708)
- 59-182 Schulte, Harry F.  
 SAMPLING EQUIPMENT (DUSTS, GASES, AND LIQUIDS).  
Radiation Hygiene Handbook, Blatz, H. (ed) (McGraw-Hill New York), Chap. 20, Sect. 20, p. 1-31 (1959).  
 (LADC-2809)
- 59-183 Seagrave, John D.  
 T(p,n)He<sup>3</sup> REACTION AND ITS INVERSE.  
Conference on Nuclear Forces and the Few-Nucleon Problem, London, 1959. Proceedings. Griffith, T. C. and Power, E. A. (eds) (Pergamon Press, New York) Vol. 2, p. 583-93 (1959). Also: Bull. Am. Phys. Soc., 2, 4, 443 (1959).  
 (LADC-3859)
- 59-184 Shipman, Thomas L.  
 CAN YOU ANSWER YOUR PATIENTS' QUESTIONS ABOUT RADIATION?  
 J. Mich. State Med. Soc. 58, 608-10 (1959). (LADC-PUB-175)

- 59-185 Singer, Joseph and Cromer, Don T.  
CRYSTAL STRUCTURE ANALYSIS OF ZIRCONIUM SULPHATE TETRAHYDRATE.  
Acta Cryst. 12, 719-23 (1959). (LADC-3773)
- 59-186 Soper, William G.  
CURVE INTEGRATOR.  
Rev. Sci. Instr. 30, 742 (1959). (LADC-3699)
- 59-187 Spalding, John F., Hawkins, Sara B., and Strang, Verda G.  
ABILITY OF EXTRINSIC GONADOTROPIN (FSH) TO FUNCTION WHEN  
ADMINISTERED AFTER SUBLETHAL AND LETHAL X-RAY EXPOSURES.  
Radiation Res. 11, 67-71 (1959). (LADC-3405)
- 59-188 Spalding, John F., Strang, Verda G., and Sayeg, Joseph A.  
RELATIVE BIOLOGICAL EFFECT OF FISSION NEUTRONS WITH THE  
BROAD BEAN ROOT (VICIA FABA) AS A TEST SYSTEM.  
Radiation Res. 10, 176-9 (1959). (LADC-3432)
- 59-189 Steinhaus, David W.  
PHOTOELECTRIC COMPARATOR FOR WAVELENGTH AND INTENSITY  
MEASUREMENTS OF SPECTRA.  
J. Optical Soc. Am. 49, 468-70 (1959). (LADC-3423)
- 59-190 Storer, John B.  
RATE OF RECOVERY FROM RADIATION DAMAGE AND ITS POSSIBLE  
RELATIONSHIP TO LIFE SHORTENING IN MICE.  
Radiation Res. 10, 180-96 (1959). (LADC-3424)
- 59-191 Storms, Edmund K. and Krikorian, Nerses H.  
VARIATION OF LATTICE PARAMETER WITH CARBON CONTENT OF NIOBIUM  
CARBIDE.  
J. Phys. Chem. 63, 1747-49 (1959). (LADC-3755)
- 59-192 Sullivan, John H.  
RATE OF REACTION OF HYDROGEN WITH IODINE AT EQUILIBRIUM.  
J. Chem. Phys. 30, 1577-80 (1959). (LADC-3617)

- 59-193 Sullivan, John H.  
 RATES OF REACTION OF HYDROGEN WITH IODIDE.  
 J. Chem. Phys. 30, 1292-1300 (1959). (LADC-3586)
- 59-194 Swihart, Thomas L.  
 CONVECTION IN THE SUN.  
 Astronom. J. 64, 133 (1959). (LADC-3697)
- 59-195 Tate, Raymond E.  
 PLUTONIUM FUEL ELEMENTS.  
Nuclear Fuel Elements, Hausner, Henry H. and Schumar,  
 James F. (eds) (Reinhold Publ. Corp., New York), Chap. 8,  
 p. 110-43 (1959). (LADC-3539)
- 59-196 Tate, Raymond E. and Schonfeld, Fred W.  
 PREPARATION OF TWO LITHIUM-ARSENIC COMPOUNDS.  
 Trans. Am. Inst. Mining, Met., Petrol. Eng. 215, 296-8  
 (1959). (LADC-3479)
- 59-197 Tenney, Gerold H., Lowrey, William E., Bild, Charles F., Cone,  
 Arvine F., and Ballard, Douglas W.  
 COMPLEMENTARY ROLES OF DESTRUCTIVE AND NONDESTRUCTIVE TESTING  
 IN DEVELOPMENT PROGRAMS.  
 Nondestructive Testing 17, 97-106 (1959). (LADC-NN-91)
- 59-198 Tenney, Gerold H.  
 NONDESTRUCTIVE TESTING, ITS STATUS, CHALLENGES AND FUTURE.  
 (The 1959 Mehl Honor Lecture.)  
 Nondestructive Testing 17, 137-42 (1959). (LADC-3750)
- 59-199 Terrell, James.  
 FISSION NEUTRON SPECTRA AND NUCLEAR TEMPERATURES.  
 Phys. Rev. 113, 527-41 (1959). (LADC-3472)
- 59-200 Terrell, James.  
 INVISIBILITY OF THE LORENTZ CONTRACTION.  
 Phys. Rev. 116, 1041-45 (1959). Also: Bull. Am. Phys.  
 Soc. 2, 4, 294 (1959). (LADC-3712)

- 59-201 Thaler, Roy M.  
POLARIZABILITY OF THE NEUTRON.  
Phys. Rev. 114, 827-9 (1959). (LADC-3569)
- 59-202 Tuck, James L.  
PLASMA JET PIERCING OF MAGNETIC FIELDS AND ENTROPY TRAPPING  
INTO A CONSERVATIVE SYSTEM.  
Phys. Rev. Letters 3, 313-5 (1959). (LADC-3969)
- 59-203 Ungnade, Herbert E. and Cawley, John Duval.  
CRITERIA PROPOSED FOR PRESENTING ORGANIC ELECTRONIC DATA.  
Anal. Chem. 31, 42A-7A (Feb. 1959). (LADC-3538)
- 59-204 Ungnade, Herbert E., Igel, Eugene A., and Brixner, Berlyn.  
MELTING POINT APPARATUS FOR SIMULTANEOUS OBSERVATION OF  
SAMPLES IN TRANSMITTED AND REFLECTED LIGHT.  
Anal. Chem. 31, 1432-33 (1959). (LADC-3730)
- 59-205 Ungnade, Herbert E.  
MODIFIED MOLECULAR POT STILL.  
Anal. Chem. 31, 1126-27 (1959). (LADC-3486)
- 59-206 Ungnade, Herbert E. and Kissinger, Leonard W.  
NITRATION OF ALPHA-OXIMINO ESTERS AND ACIDS.  
J. Org. Chem. 24, 666-8 (1959). (LADC-3448)
- 59-207 Van Dilla, Marvin A.  
LARGE-CRYSTAL COUNTING.  
Nucleonics 17, 11, 150-5 (1959). (LADC-NN-72)
- 59-208 Visscher, William M.  
NEUTRINO DETECTION BY RESONANCE ABSORPTION IN CRYSTALS AT  
LOW TEMPERATURE.  
Phys. Rev. 116, 1581-82 (1959). (LADC-3898)

- 59-209 Waber, James T., O'Rourke, John A., and Kleinberg, Robert.  
ORIENTED DIOXIDE FILMS ON URANIUM.  
J. Electrochem. Soc. 106, 96-102 (1959). (LADC-1714)
- 59-210 Wagner, Paul and Driesner, Allen R.  
HIGH-TEMPERATURE MECHANICAL PROPERTIES OF GRAPHITE.  
I. CREEP IN COMPRESSION.  
J. Appl. Phys. 30, 148-51 (1959). (LADC-3417)
- 59-211 Wagner, Paul, Driesner, Allen R., and Haskin, Larry A.  
HIGH-TEMPERATURE PROPERTIES OF GRAPHITE. II. CREEP IN  
TENSION.  
J. Appl. Phys. 30, 152-4 (1959). (LADC-3418)
- 59-212 Wagner, Paul and Coriell, Sam R.  
ON THE HIGH-TEMPERATURE COMPATIBILITY OF CESIUM GAS WITH  
SOME DIELECTRICS.  
Rev. Sci. Instr. 30, 937-8 (1959). (LADC-3840)
- 59-213 Waterbury, Glenn R.  
MODIFIED SARGENT-MALMSTADT AUTOMATIC TITRATOR FOR REMOTE  
CONTROL USE WITH PLUTONIUM SOLUTIONS.  
Anal. Chem. 31, 1138-41 (1959). (LADC-3520)
- 59-214 Waterbury, Glenn R. and Metz, Charles F.  
PRECISE DETERMINATION OF PLUTONIUM BY POTENTIOMETRIC TITRATION.  
Anal. Chem. 31, 1144-48 (1959). (LADC-3521)
- 59-215 Whetstone, Stanley L.  
PROMPT-NEUTRON EMISSION FROM SINGLE FISSION FRAGMENTS.  
Phys. Rev. 114, 581-5 (1959). (LADC-3465)
- 59-216 Wood, William Wayne and Jacobson, Jack D.  
MONTE CARLO CALCULATIONS IN STATISTICAL MECHANICS.  
Proc. Western Joint Comput. Conf. 261-69 (1959).  
(LADC-3645)



- 59-217 Yarnell, John L., Arnold, George P., Bendt, Philip J., and Kerr, Eugene C.  
EXCITATIONS IN LIQUID HELIUM: NEUTRON SCATTERING MEASUREMENTS.  
Phys. Rev. 113, 1379-86 (1959). (LADC-3561)
- 59-218 Young, James E.  
THREE-BODY BREAKUP; DEUTERON DISSOCIATION CROSS SECTIONS.  
Phys. Rev. 116, 1201-11 (1959). (LADC-3020)
- 59-219 Zachariassen, William H. and Ellinger, Finley H.  
UNIT CELL AND THERMAL EXPANSION OF  $\beta$ -PLUTONIUM METAL.  
Acta Cryst. 12, 175-6 (1959). (LADC-3519)
- 59-220 Zeltmann, Alfred H. and Gerhold, George.  
EQUILIBRIUM IN THE EXCHANGE OF HYDROGEN BETWEEN ARSINE AND WATER.  
J. Chem. Phys. 31, 889-91 (1959). (LADC-3679)
- 59-221 Zobrisky, Steve E., Neumann, H. D., Dyer, A. J. and Anderson, Ernest C.  
RELATIONSHIP BETWEEN THE POTASSIUM ISOTOPE K-40 AND MEATINESS OF LIVE HOGS.  
J. Animal Sci. 18, 1480 (1959). (LADC-NN-90)
- 59-222 Zukas, Eugene G.  
PROPERTIES OF AS-CAST AND HEAT TREATED 2% MOLYBDENUM-URANIUM.  
Trans. Am. Soc. Metals 51, 752-7 (1959). (LADC-2974)

- 59-1A Ajzenberg-Selove, Fay, Jarmie, Nelson, and Haddad, Eugene.  
NEUTRONS FROM THE TRITON BOMBARDMENT OF  $\text{Li}^6$  AND  $\text{Li}^7$ .  
Bull. Am. Phys. Soc. 2, 4, 258 (1959). (LADC-3713)
- 59-2A Armstrong, Alice H., Brolley, John E., Jr., and Rosen, Louis.  
ELASTIC SCATTERING OF DEUTERONS BY TRITIUM AND BY HELIUM-3.  
Bull. Am. Phys. Soc. 2, 4, 104 (1959). (LADC-3665)
- 59-3A Armstrong, Alice H., Harrison, Francis B., and Rosen, Louis.  
FLUX AND ENERGY OF CHARGED PARTICLES AT 300- AND 600-MILE  
ALTITUDE.  
Bull. Am. Phys. Soc. 2, 4, 360 (1959). (LADC-3897)
- 59-4A Baker, Don A. and Ribe, Fred L.  
DIAMAGNETIC EFFECTS IN A ROTATING PLASMA.  
Bull. Am. Phys. Soc. 2, 4, 248 (1959). (LADC-3725)
- 59-5A Battat, Morris E. and Carmichael, Byron M.  
LOS ALAMOS POWER REACTOR EXPERIMENT NO. II, CRITICALITY.  
Trans. Am. Nucl. Soc. 2, 2, 110-1 (1959). (LADC-3920)
- 59-6A Blumberg, Leroy, Bahcall, John, Garrett, Donald, and Leachman,  
Robert B.  
ANISOTROPY OF FRAGMENTS FROM  $\text{U}^{233}$  AND  $\text{Pu}^{239}$  FISSION.  
Bull. Am. Phys. Soc. 2, 4, 31 (1959). (LADC-3603)
- 59-7A Boone, Irene U.  
EFFECTS OF PARTIAL-BODY AND WHOLE-BODY X IRRADIATION ON LIFE  
SPAN AND TUMOR INCIDENCE OF  $\text{CF}_1$  MICE.  
Radiation Res. 11, 3, 434 (1959). (LADC-3779)
- 59-8A Boyer, Keith, Elmore, W. C., Little, Edward M., and Quinn,  
Warren E.  
OBSERVATIONS ON A DEUTERIUM PLASMA COMPRESSED BY AN AXIAL  
MAGNETIC FIELD.  
Bull. Am. Phys. Soc. 2, 4, 101 (1959). (LADC-3663)

- 59-9A Brinkley, Forrest W. and Mills, Carroll B.  
ONE-DIMENSIONAL DIFFUSION INTERMEDIATE REACTOR CODE (FIRE CODE).  
Trans. Am. Nucl. Soc. 2, 1, 234-5 (1959). (LADC-3728)
- 59-10A Bunker, Merle E. and Starner, John W.  
DECAY OF Ba<sup>139</sup>.  
Bull. Am. Phys. Soc. 2, 4, 279 (1959). (LADC-3732)
- 59-11A Burkhardt, Louis C. and Lovberg, Ralph H.  
DETAILED MAGNETIC PROBE MEASUREMENTS ON A STABILIZED PINCH.  
Bull. Am. Phys. Soc. 2, 4, 119 (1959). (LADC-3500)
- 59-12A Burkhardt, Louis C. and Lovberg, Ralph H.  
EXPERIMENTS ON REVERSE-B<sub>Z</sub> PINCH STABILIZATION.  
Bull. Am. Phys. Soc. 2, 4, 365 (1959). (LADC-3739)
- 59-13A Carter, Robert E., Motz, Henry T., Fisher, Philip C., and Barfield, Walter D.  
CAPTURE GAMMA-RAY SPECTRUM FROM TITANIUM.  
Bull. Am. Phys. Soc. 2, 4, 477 (1959). (LADC-3988)
- 59-14A Clark, Robert A. and King, L. D. Percival.  
LOS ALAMOS POWER REACTOR EXPERIMENTS NO. II, DESCRIPTION AND TEST OPERATION.  
Trans. Am. Nucl. Soc. 2, 2, 109-10 (1959). (LADC-3921)
- 59-15A Cochran, Donald R. F. and Knight, Jere D.  
FURTHER INVESTIGATIONS OF THE INTERACTION OF He<sup>3</sup> WITH C<sup>12</sup> AND Al<sup>27</sup> IN THE ENERGY REGION 6 TO 24 MEV.  
Bull. Am. Phys. Soc. 2, 4, 219 (1959). (LADC-3729)
- 59-16A Conner, Jerry P., Henkel, Richard L. and Simmons, James E.  
ANGULAR DISTRIBUTION OF FRAGMENTS FROM FISSION OF U<sup>236</sup> INDUCED BY 6.14 MEV GAMMA RAYS.  
Bull. Am. Phys. Soc. 2, 4, 234 (1959). (LADC-3735)

- 59-17A Cook, James M., Okrent, David, Satkus, D., Lazarus, Roger B., and Wells, Mark B.  
 AX-1, A COMPUTING PROGRAM FOR COUPLED NEUTRONICS-HYDRODYNAMICS CALCULATIONS ON THE IBM-704.  
 Trans. Am. Nucl. Soc. (Annual Meeting, Gatlinburg, Tennessee, June 15-17, 1959) 2, 1, 113-5 (1959). (LADC-OR-358)
- 59-18A Coon, James H. and Davis, Roland W.  
 RADIATIVE CAPTURE OF DEUTERONS BY H<sub>2</sub>.  
 Bull. Am. Phys. Soc. 2, 4, 366-7 (1959). (LADC-3893)
- 59-19A Cowan, George A. and Turkevich, Anthony.  
 MODE OF NEUTRON-INDUCED U<sup>235</sup> FISSION AT INDIVIDUAL RESONANCES IN THE EPITHERMAL ENERGY REGION.  
 Bull. Am. Phys. Soc. 2, 4, 31-2 (1959). (LADC-3605)
- 59-20A Craig, Paul P., Lazarus, Roger, Hammel, Edward F., Jr., and Keller, William E.  
 FLOW OF He II THROUGH NARROW SLITS. III. CALCULATIONS FOR LARGE TEMPERATURE GRADIENTS.  
 Bull. Am. Phys. Soc. 2, 4, 239 (1959). (LADC-3723)
- 59-21A Craig, Paul P., Dash, Jay G., McGuire, Austin D., and Nagle, Darragh E.  
 RESONANCE ABSORPTION OF GAMMA RAYS IN CRYSTALS.  
 Bull. Am. Phys. Soc. 2, 4, 373 (1959). (LADC-3892)
- 59-22A Cranberg, Lawrence and Bell, George I.  
 BACKGROUND REDUCTION IN NEUTRON CAPTURE GAMMA-RAY MEASUREMENTS.  
 Bull. Am. Phys. Soc. 2, 4, 473 (1959). (LADC-3974)
- 59-23A Cranston, Fred P., Jr., Starnner, John W., and Bunker, Merle E.  
 DECAY OF Dy<sup>165</sup> AND Dy<sup>165m</sup>.  
 Bull. Am. Phys. Soc. 2, 4, 292 (1959). (LADC-3726)
- 59-24A Diven, Ben C. and Terrell, James.  
 RADIATIVE CAPTURE OF FAST NEUTRONS.  
 Bull. Am. Phys. Soc. 2, 4, 473 (1959). (LADC-3378)

- 59-25A Dreicer, Harry and Mjolsness, Raymond.  
EXCITATION OF ELECTROSTATIC INSTABILITIES BY RUNAWAY  
ELECTRONICS.  
Bull. Am. Phys. Soc. 2, 4, 116 (1959). (LADC-3512)
- 59-26A Dreicer, Harry.  
RADIATION FROM A TEST OSCILLATOR IN A PLASMA.  
Gaseous Electron. Conf., 12th, Washington, 1959.  
Program and Abstracts of Papers, p. 54 (1959).  
(LADC-4025)
- 59-27A Dropesky, Bruce J., Hoffman, Darleane C., and Daniels, William  
R.  
DECAY OF  $\text{Pr}^{145}$ .  
Bull. Am. Phys. Soc. 2, 4, 57-8 (1959). (LADC-3604)
- 59-28A Duff, Russell E. and Webster, Walter M.  
MEASUREMENT OF SHOCK WAVE THICKNESS IN ARGON.  
Bull. Am. Phys. Soc. 2, 4, 283 (1959). (LADC-3718)
- 59-29A Duff, Russell E.  
OBSERVATIONS OF SHOCK TUBE PERFORMANCE AT LOW INITIAL  
PRESSURE.  
Bull. Am. Phys. Soc. 2, 4, 202 (1959). (LADC-3547)
- 59-30A Fisher, Philip C., Kellogg, Martin P., Koontz, Philip G., and  
Engle, Leon B.  
DELAYED GAMMAS FROM FISSION OF  $\text{Th}^{232}$ ,  $\text{U}^{235}$ ,  $\text{U}^{238}$ , AND  $\text{Pu}^{239}$ .  
Bull. Am. Phys. Soc. 2, 4, 31 (1959). (LADC-3591)
- 59-31A Ford, George P.  
FISSION YIELDS AS VECTORS.  
Bull. Am. Phys. Soc. 2, 4, 98 (1959). (LADC-2868)
- 59-32A Fowler, Eric B., Christenson, Conard W., Journey, Edward T.,  
and Schafer, William D.  
EXPERIENCE WITH GROWTH AND CONTROL OF BACTERIA IN THE OMEGA  
WEST REACTOR.  
Am. Chem. Soc. Abstracts of Papers 135, 1-2T (1959).  
(LADC-3625)

- 59-33A Gould, R. Gordon, Lilly, Edith H., and Mitchell, V. E.  
EFFECTS OF MER-29 ON TISSUE AND PLASMA CHOLESTEROL CONCENTRATIONS AND ON HEPATIC CHOLESTEROL SYNTHESIS FROM MEVALONIC ACID.  
Circulation 20, 965 (1959). (LADC-3880)
- 59-34A Gould, R. Gordon, Jones, Richard J., and Wissler, Robert W.  
LIABILITY OF CHOLESTEROL IN HUMAN ATHEROSCLEROTIC PLAQUES.  
Circulation 20, 967 (1959). (LADC-3881)
- 59-35A Green, Alex E. S., Meyer-Berkhout, Ulrich, and Ford, Kenneth W.  
SERIES EXPANSION METHODS FOR INFERRING RADIAL DISTRIBUTIONS.  
Bull. Am. Phys. Soc. 2, 4, 151 (1959). (LADC-NN-9)
- 59-36A Griffin, James J. and Rich, Marvin.  
MOMENTS OF INERTIA OF EVEN-EVEN NUCLEI IN THE RARE EARTH REGION.  
Bull. Am. Phys. Soc. 2, 4, 255 (1959). (LADC-3731)
- 59-37A Hammel, Edward F., Jr., and Keller, William E.  
FLOW OF He II THROUGH NARROW SLITS. I. HEAT CONDUCTION.  
Bull. Am. Phys. Soc. 2, 4, 239 (1959). (LADC-3721)
- 59-38A Hammond, R. Philip, Carmichael, Byron M., Peterson, Rolf E., Wykoff, Walter R., and Clark, Arthur J., Jr.  
TURRET - A HIGH TEMPERATURE GAS COOLED REACTOR EXPERIMENT WITH UNCLAD FUEL.  
Trans. Am. Nucl. Soc. 2, 2, 148-9 (1959). (LADC-3914)
- 59-39A Heller, Leon and Gursky, Martin L.  
PROTON-PROTON EFFECTIVE RANGE THEORY WITH VACUUM POLARIZATION.  
Bull. Am. Phys. Soc. 2, 4, 460 (1959). (LADC-4044)
- 59-40A Henkel, Richard L. and Simmons, James E.  
ANGULAR DISTRIBUTIONS OF FRAGMENTS IN THE FAST-NEUTRON FISSION OF U<sup>233</sup>, U<sup>235</sup>, AND Pu<sup>239</sup>.  
Bull. Am. Phys. Soc. 2, 4, 233-4 (1959). (LADC-3734)

- 59-41A Hoffman, Darleane C. and Daniels, William R.  
SHORT-LIVED ISOTOPEs OF Ce AND Pr.  
Bull. Am. Phys. Soc. 2, 4, 372 (1959). (LADC-3882)
- 59-42A Keller, William E. and Hammel, Edward F., Jr.  
FLOW OF He II THROUGH NARROW SLITS. I. FOUNTAIN PRESSURE  
MEASUREMENTS.  
Bull. Am. Phys. Soc. 2, 4, 239 (1959). (LADC-3722)
- 59-43A Knight, Herbert T. and Rink, John P.  
DISSOCIATION ENERGIES OF CYANOGEN, CN RADICAL, AND HYDROGEN  
CYANIDE, AND THE HEAT OF FORMATION OF CN, BY X-RAY DENSI-  
TOMETRY OF SHOCK WAVES.  
Am. Chem. Soc. Abstracts of Papers 136, 38-9S (1959).  
(LADC-3870)
- 59-44A Kruse, Herald W. and Schardt, Alois W.  
LIQUID XENON SCINTILLATOR FOR GAMMA-RAY DETECTION.  
Bull. Am. Phys. Soc. 2, 4, 326 (1959). (LADC-3794)
- 59-45A Leary, Joseph A. and Kahn, Milton.  
ISOTOPIC EXCHANGE BETWEEN POTASSIUM IODIDE AND BENZYL IODIDES.  
SOLVENT EFFECTS.  
J. Am. Chem. Soc. 81, 4173-76 (1959). (LADC-2500)
- 59-46A Lewis, H. W. and Reitz, J. R.  
EFFICIENCY OF THE PLASMA THERMOCOUPLE.  
Bull. Am. Phys. Soc. 2, 4, 420 (1959). (LADC-3982)
- 59-47A Lockett, Andrew M., III, Rotenberg, Manuel, and Brueckner,  
Keith A.  
CALCULATION OF THE STRUCTURE OF A FINITE NUCLEUS.  
Bull. Am. Phys. Soc. 2, 4, 156 (1959). (LADC-3675)
- 59-48A Lushbaugh, Clarence C. and Hale, Dorothy B.  
APPARENT POST-MORTEM MITOTIC ACTIVITY OF NEOPLASTIC AND  
NORMAL TISSUES.  
Proc. Am. Assoc. Cancer Res. 3, 39 (1959). (LADC-3651)

- 59-49A Lushbaugh, Clarence, Marvin, Horace Newell, and Hale, Dorothy B.  
LIFE-SPAN OF THE RADIOCHROMATED ERYTHROCYTE.  
Federation Proc. 18, 491 (1959). (LADC-3646)
- 59-50A Lushbaugh, Clarence C. and Hale, Dorothy B.  
WHOLE-BODY COUNTING IN CLINICAL DIAGNOSIS.  
J. Nucl. Med., Sixth Ann. Meeting Ed., 1959. p. 27 (1959).  
(LADC-3761)
- 59-51A Mather, Joseph W.  
ORTHOGONAL OR B-CENTERED PINCH.  
Bull. Am. Phys. Soc. 2, 4, 118 (1959). (LADC-3552)
- 59-52A Mautz, Charles W.  
SOME ASPECTS OF THE INITIATION OF DETONATION IN NITROGLYCERIN.  
Bull. Am. Phys. Soc. 2, 4, 39 (1959). (LADC-3600)
- 59-53A Meyer-Berkhout, Ulrich, Green, Alex E. S., and Ford, Kenneth W.  
ANALYSIS OF HIGH-ENERGY ELECTRON SCATTERING FROM 1p-SHELL  
NUCLEI.  
Bull. Am. Phys. Soc. 2, 4, 151-2 (1959). (LADC-PUB-217)
- 59-54A Motz, Henry T., Carter, Robert E., and Fisher, Philip C.  
COMPTON SPECTROMETER FOR NEUTRON CAPTURE GAMMA RAYS.  
Bull. Am. Phys. Soc. 2, 4, 246 (1959). (LADC-3727)
- 59-55A Motz, Henry T., Carter, Robert E., and Fisher, Philip C.  
GAMMA-RAY ENERGY MEASUREMENTS WITH A COMPTON SPECTROMETER.  
Bull. Am. Phys. Soc. 2, 4, 477 (1959). (LADC-3987)
- 59-56A Mullins, Lawrence J., Leary, Joseph A., and Maraman, William J.  
REMOVAL OF FISSION PRODUCT ELEMENTS FROM PLUTONIUM BY SLAG-  
GING METHODS.  
Am. Chem. Soc. Abstracts of Papers 135, 16L (1959).  
(LADC-3609)



- 59-57A Nagle, Darragh E., Leland, Wallace T., Quinn, Warren E., and Riesenfeld, Werner B.  
VELOCITY DISTRIBUTION OF THE CHARGED PRODUCTS OF THE d-d REACTION IN SCYLLA.  
Bull. Am. Phys. Soc. 2, 4, 359 (1959). (LADC-4243)
- 59-58A Orth, Charles J. and Smith, Ronald K.  
SHORT-LIVED ISOTOPES OF Nb AND Zr FROM FISSION.  
Bull. Am. Phys. Soc. 2, 4, 372 (1959). (LADC-3884)
- 59-59A Penneman, Robert A., McCullough, Roy L., and Jones, Llewellyn H.  
STUDIES OF EQUILIBRIA IN AQUEOUS SOLUTIONS USING INFRARED SPECTROPHOTOMETRY.  
Am. Chem. Soc. Abstracts of Papers 136, 33N (1959).  
(LADC-3857)
- 59-60A Quinn, Warren E., Little, Edward M., Sawyer, George A., and Stratton, Thomas F.  
OBSERVATIONS ON A SHOCK-HEATED DEUTERIUM PLASMA COMPRESSED BY AN AXIAL MAGNETIC FIELD.  
Bull. Am. Phys. Soc. 2, 4, 364 (1959). (LADC-3889)
- 59-61A Rabideau, Sherman W. and Kline, Robert J.  
KINETICS OF OXIDATION REDUCTION REACTIONS OF PLUTONIUM. REACTION BETWEEN PLUTONIUM(VI) AND TITANIUM(III) IN PERCHLORATE SOLUTION.  
Am. Chem. Soc. Abstracts of Papers 135, 16-17R (1959).  
(LADC-3150)
- 59-62A Richmond, Chester R. and Langham, Wright H.  
METABOLISM OF Zn<sup>65</sup> IN MICE, RATS, DOGS, MONKEYS AND MAN.  
Health Phys. 2, 97 (1959). (LADC-3742)
- 59-63A Sartori, Leo, Werbrouck, Albert Eugene, Wooten, John K., and Bivins, Robert L.  
MONTE CARLO CALCULATION OF STRANGE-PARTICLE PRODUCTION.  
Bull. Am. Phys. Soc. 2, 4, 289-90 (1959). (LADC-NN-86)

- 59-64A Savage, Albert W., Jr., and Browne, James C.  
 AQUEOUS SOLUBILITY OF URANIUM TETRAFLUORIDE.  
 Am. Chem. Soc. Abstracts of Papers 135, 13R (1959).  
 (LADC-3647)
- 59-65A Schardt, Alois W. and Goodman, Albert.  
 HALF-LIFE OF  $B^{12}$  AND OF  $Na^{24m}$ .  
 Bull. Am. Phys. Soc. 2, 4, 56 (1959). (LADC-3595)
- 59-66A Schott, Garry L.  
 KINETIC STAGES OF COMPLETE HYDROGEN-OXYGEN REACTION AT HIGH  
 TEMPERATURES.  
 Am. Chem. Soc. Abstracts of Papers 135, 37R (1959).  
 (LADC-3641)
- 59-67A Seeger, Philip A.  
 SEMIEMPIRICAL ATOMIC MASS LAW.  
 Bull. Am. Phys. Soc. 2, 4, 461 (1959). (LADC-4041)
- 59-68A Sherman, Robert H. and Edeskuty, Frederick J.  
 PRESSURE-VOLUME-TEMPERATURE RELATIONS IN LIQUID  $He^3$ .  
 Bull. Am. Phys. Soc. 2, 4, 240 (1959). (LADC-3724)
- 59-69A Simmons, James E. and Henkel, Richard L.  
 ANGULAR DISTRIBUTION OF FRAGMENTS IN THE FAST NEUTRON-  
 INDUCED FISSION OF  $Th^{230}$ ,  $U^{236}$ , AND  $U^{238}$ .  
 Bull. Am. Phys. Soc. 2, 4, 373 (1959). (LADC-3896)
- 59-70A Smith, Ronald K., Cranberg, Lawrence, and Levin, Jules S.  
 THREE-BODY REACTIONS WHICH COMPETE WITH  $T(d,n)He^4$ .  
 Bull. Am. Phys. Soc. 2, 4, 218 (1959). (LADC-3733)
- 59-71A Starner, John W.  
 DECAY OF  $Pd^{109}$  AND  $Pd^{109m}$ .  
 Bull. Am. Phys. Soc. 2, 4, 99 (1959). (LADC-3658)

- 59-72A Stewart, Leona, Brolley, John E., Jr., and Rosen, Louis.  
ELASTIC SCATTERING OF 6.5- AND 8.3-MEV PROTONS BY T AND He<sup>3</sup>.  
Bull. Am. Phys. Soc. 2, 4, 104 (1959). (LADC-3664)
- 59-73A Swickard, Earl O.  
LOS ALAMOS MOLTTEN PLUTONIUM REACTOR EXPERIMENT NO. I.  
Trans. Am. Nucl. Soc. 2, 2, 147-8 (1959). (LADC-3932)
- 59-74A Terrell, James and Diven, Ben C.  
PREDICTION OF NEUTRON CAPTURE CROSS SECTIONS.  
Bull. Am. Phys. Soc. 2, 4, 475 (1959). (LADC-3960)
- 59-75A Wegner, Harvey E. and Hall, W. Stanley.  
ANGULAR DISTRIBUTIONS OF DEUTERONS FROM THE Be<sup>9</sup>(He<sup>3</sup>,d)B<sup>10</sup>  
REACTION AT 25 MEV.  
Bull. Am. Phys. Soc. 2, 4, 95 (1959). (LADC-3662)
- 59-76A Williams, Arthur H. and Mather, Joseph W.  
COLUMBUS II (A HIGH POWERED LINEAR PINCH MACHINE)  
Bull. Am. Phys. Soc. 2, 4, 119 (1959). (LADC-3400)
- 59-77A Young, James E. and Visscher, William M.  
T(p,n)He<sup>3</sup> REACTION.  
Bull. Am. Phys. Soc. 2, 4, 372 (1959). (LADC-3895)

- 60-1 Adams, Warren H., Fowler, Eric B., and Christenson, Conard W.  
METHOD FOR TREATING RADIOACTIVE NITRIC ACID WASTES USING  
PARAFORMALDEHYDE.  
Ind. Eng. Chem. 52, 55-6 (1960). (LADC-3847)
- 60-2 Allen, Thomas Hunter, Anderson, Ernest C., and Langham, Wright  
H.  
TOTAL BODY POTASSIUM AND GROSS BODY COMPOSITION IN RELATION  
TO AGE.  
J. Gerontol. 15, 348-57 (1960). (LADC-4079)
- 60-3 Armstrong, Alice H. and Rosen, Louis.  
MECHANISM OF THE  $Zn^{64}(n,p)Cu^{64}$  REACTION AT INCIDENT NEUTRON  
ENERGIES OF 8 AND 14 MEV.  
Nucl. Phys. 19, 40-51 (1960). (LADC-4130)
- 60-4 Asprey, Larned B. and Kruse, Ferdinand.  
DIVALENT THULIUM. THULIUM DI-IODIDE.  
J. Inorg. & Nucl. Chem. 13, 32-5 (1960). (LADC-3909)
- 60-5 Asprey, Larned B. and Cunningham, Burris Bell.  
UNUSUAL OXIDATION STATES OF SOME ACTINIDE AND LANTHANIDE  
ELEMENTS.  
Progr. Inorg. Chem. 2, 269-302 (1960). (LADC-NN-78)
- 60-6 Baker, Floyd B., Newton, Thomas W., and Kahn, Milton.  
KINETICS OF THE REACTION BETWEEN URANIUM(IV) AND CERIUM(IV).  
J. Phys. Chem. 64, 109-12 (1960). (LADC-3931)

- 60-7 Baker, George A.  
 IMPLICIT NUMERICAL METHOD FOR SOLVING THE n-DIMENSIONAL HEAT EQUATION.  
 Quart. Appl. Math. 17, 440-3 (1960). (LADC-3510)
- 60-8 Baker, George A. and Oliphant, Thomas A.  
 IMPLICIT, NUMERICAL METHOD FOR SOLVING THE TWO-DIMENSIONAL HEAT EQUATION.  
 Quart. Appl. Math. 17, 361-73 (1960). (LADC-3384)
- 60-9 Baker, George A., Jr., Gammel, John L., and Wills, John.  
 RECENT EFFORTS AT LOS ALAMOS TO INTEGRATE THE n-d SCATTERING EQUATIONS EXACTLY NUMERICALLY.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C. and Power, E. A. (eds) (Pergamon Press, New York), p. 357-58 (1960). (LADC-3862)
- 60-10 Baker, George A.  
 STOPPING OF  $\pi$ -MINUS AND K-MINUS MESONS ON HYDROGEN IN NUCLEAR EMULSION.  
 Phys. Rev. 117, 1130-36 (1960). Also: Bull. Am. Phys. Soc. 2, 5, 72 (1960). (LADC-3973)
- 60-11 Baker, Richard D. and Maraman, William J.  
 CALCIUM REDUCTION OF PLUTONIUM HALIDES TO METAL.  
Extractive and Physical Metallurgy of Plutonium and Its Alloys, Wilkinson, W. D. (ed) (Interscience, New York), p. 43-59 (1960). (LADC-3012)
- 60-12 Balestrini, Silvio J. and White, Frederick A.  
 WORKABLE MAGNETIC SHIM TO CORRECT SECOND-ORDER ABERRATION IN A MASS SPECTROMETER.  
 Rev. Sci. Instr. 31, 633-6 (1960). (LADC-4197)
- 60-13 Ball, William.  
 FREON CASCADE REFRIGERATOR FOR LIQUID AIR PLANT PRECOOLER.  
 Advan. Cryog. Eng. 1, 314-23 (1960). (LADC-1532)

- 60-14 Bame, Samuel J., Jr., Haddad, Eugene, Perry, Joseph E., Jr., Smith, Ronald K., and Swartz, Blair.  
COUNTER TELESCOPE MEASUREMENT OF NEUTRON FLUX.  
Rev. Sci. Instr. 31, 911-3 (1960). (LADC-4245)
- 60-15 Barloutaud, Roland, Faraggi, Henriette, Rosen, Louis, and Shafroth, Stephen M.  
SUR LA PRODUCTION ET LA DETECTION DE DEUTONS POLARISES.  
J. Phys. Radium 21, 369-72 (1960). (LADC-NN-21)
- 60-16 Barnett, Martin D., Daub, Guido H., Hayes, Francis Newton, and Ott, Donald G.  
LIQUID SCINTILLATORS. XI. 2-(2-FLUORENYL)-2-ARYL-SUBSTITUTED OXAZOLES AND 2-(2-FLUORENYL)-5-PHENYL-1,3,4-OXADIAZOLE.  
J. Am. Chem. Soc. 82, 2282-85 (1960). (LADC-3911)
- 60-17 Bender, John H., Dutili, James W., and Edwards, Paul D.  
ELECTRODE POTENTIAL TESTING.  
Nondestructive Testing 18, 99-102 (1960). (LADC-3556)
- 60-18 Bender, John H. and Kalmus, Ernest H.  
MODIFIED ALUMINUM-PRESSING TECHNIQUE FOR MULTIPLE REPLICATION.  
Z. Wiss. Mikroskopie 64, 419-24 (1960). (LADC-3125)
- 60-19 Bethe, Hans A.  
STORY OF THE LOS ALAMOS LABORATORY (Reprinted from LASL News, June 30, 1960 and July 14, 1960).  
Nucl. News (ANS) 3, 3, 2-4 (1960), and 3, 4, 34-7 (1960).  
(LADC-NN-62)
- 60-20 Birkeland, Stephen P., Daub, Guido H., Hayes, Francis Newton, and Ott, Donald G.  
LIQUID SCINTILLATORS. X. SOME ARYL SUBSTITUTED PHENANTHRENES AND DIHYDROPHENANTHRENES, AND RELATED p-TERPHENYLS AND p-QUATERPHENYLS. DETERMINATION OF KALLMANN PARAMETERS.  
Z. Physik 159, 516-23 (1960). (LADC-3875)

- 60-21 Blais, Normand C. and Mann, Joseph B.  
IONIZATION OF Cu, Ag, AND Au BY ELECTRON IMPACT.  
J. Chem. Phys. 33, 100-5 (1960). (LADC-4180)
- 60-22 Blais, Normand C. and Mann, Joseph B.  
THERMAL CONDUCTIVITY OF HELIUM AND HYDROGEN AT HIGH  
TEMPERATURES.  
J. Chem. Phys. 32, 1459-65 (1960). (LADC-4026)
- 60-23 Boone, Irene U.  
INCIDENCE OF TUMORS IN ANIMALS EXPOSED TO WHOLE-BODY  
RADIATIONS.  
Delayed Effects of Whole-Body Radiation: A Symposium,  
Watson, B. B. (ed) (Johns Hopkins Press, Baltimore,  
Maryland), p. 19-37 (1960). (LADC-NN-52)
- 60-24 Boyer, Keith, Elmore, William C., Little, Edward M., Quinn,  
Warren E., and Tuck, James L.  
STUDIES OF PLASMA HEATED IN A FAST-RISING AXIAL MAGNETIC FIELD  
(SCYLLA).  
Phys. Rev. 119, 831-43 (1960). (LADC-4246)
- 60-25 Boyes, George Wesley, Jr., Ramsay, John Barada, and Phelps,  
Robert T.  
SPECTROCHEMICAL ANALYSIS OF 'FISSIUM' FOR CERIUM AND  
LANTHANUM.  
Talanta 6, 209-14 (1960). (LADC-3904)
- 60-26 Briesmeister, Arthur C., McInteer, Bertus B., Potter, Robert M.,  
and Robinson, Eugene S.  
SEPARATION OF TRITIUM FROM HYDROGEN BY THERMAL DIFFUSION.  
Intern. J. Appl. Radiation Isotopes 9, 181 (1960).  
(LADC-4377)
- 60-27 Briscoe, William L.  
IMPROVED BRIDGE FOR LOW TEMPERATURE MEASUREMENTS.  
Rev. Sci. Instr. 31, 999-1000 (1960). (LADC-4347)

- 60-28 Brixner, Berlyn.  
IMPROVED f/10 SWEEPING-IMAGE CAMERA.  
J. Soc. Motion Picture Television Engrs. 69, 109-12 (1960).  
(LADC-3946)
- 60-29 Brolley, John E., Putnam, Thomas M., Rosen, Louis, and  
Stewart, Leona.  
HYDROGEN-HELIUM ISOTOPE ELASTIC SCATTERING PROCESSES AT  
INTERMEDIATE ENERGIES.  
Phys. Rev. 117, 1307-16 (1960). (LADC-4017)
- 60-30 Brolley, John E., Jr., and Fowler, Joseph L.  
MONOENERGETIC NEUTRON SOURCES: REACTIONS WITH LIGHT NUCLEI.  
Fast Neutron Physics, Marion, J. B. and Fowler, J. L. (eds)  
(Interscience, New York), Pt. I, Chap. I.C, p. 73-111  
(1960). (LADC-2121)
- 60-31 Brolley, John E., Jr., Stewart, Leona, and Rosen, Louis.  
SPIN INTERACTION IN T-a AND D-a SCATTERING PROCESSES.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C.  
and Power, E. A. (eds) (Pergamon Press, New York),  
p. 455-60 (1960). (LADC-3887)
- 60-32 Bronisz, Stanley E. and Gorum, Alvin E.  
PLASTIC DEFORMATION OF MONOCLINIC ALPHA PLUTONIUM.  
J. Nucl. Mater. 2, 353-5 (1960). (LADC-4297)
- 60-33 Brout, Robert H.  
COLLECTIVE OSCILLATIONS AND GIANT DENSITY FLUCTUATIONS.  
Phys. Rev. Letters 2, 193-7 (1960). (LADC-4449)
- 60-34 Brueckner, Keith A., Gammel, John L., and Kubis, Joseph T.  
BINDING ENERGY OF A NEUTRON GAS.  
Phys. Rev. 118, 1095-97 (1960). (LADC-NN-22)
- 60-35 Brueckner, Keith A., Gammel, John L., and Kubis, Joseph T.  
CALCULATION OF SINGLE-PARTICLE ENERGIES IN THE THEORY OF  
NUCLEAR MATTER.  
Phys. Rev. 118, 1438-41 (1960). (LADC-NN-24)



- 60-36 Brueckner, Keith A., Lockett, Andrew, and Rotenberg, Manuel.  
HARTREE-FOCK METHOD FOR STRONGLY INTERACTING SYSTEMS.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C.  
and Power, E. A. (eds) (Pergamon Press, New York),  
p. 635-8 (1960). (LADC-NN-20)
- 60-37 Bryant, Ernest A., Cowan, George A., Heald, Walter R., Menzel,  
Ronald George, Reitemeier, Robert Francis, Sattizahn, James E.,  
and Warren, Buddy.  
BIOLOGICAL AVAILABILITY OF STRONTIUM-90 FROM ATOMIC TESTS.  
*Science* 132, 327-30 (1960). (LADC-4018)
- 60-38 Bubernak, Joseph, Lew, Marion, and Matlack, George.  
DETERMINATION OF AMERICIUM IN PLUTONIUM ALLOY FUELS FOR FAST  
REACTORS.  
*Talanta* 6, 167-72 (1960). (LADC-3901)
- 60-39 Bunker, Don L.  
MECHANICS OF ATOMIC RECOMBINATION REACTIONS.  
*J. Chem. Phys.* 32, 1001-05 (1960), and Erratum 33, 617L  
(1960). (LADC-4027)
- 60-40 Bussard, Robert W.  
GALACTIC MATTER AND INTERSTELLAR FLIGHT.  
*Astronaut. Acta* 6, 4, 179-94 (1960). (LADC-NN-221)
- 60-41 Bustamante, Santiago Jose and Sheinberg, Haskell.  
DETERMINATION OF HOOP STRESSES INDUCED IN A CYLINDRICAL  
STEEL DIE BY COMPACTING METAL POWDERS.  
*Powder Met. no. 6*, 36-51 (1960). (LADC-4361)
- 60-42 Byers, Cleo C.  
CROSS SECTIONS OF VARIOUS MATERIALS IN THE GODIVA AND  
JEZEBEL CRITICAL ASSEMBLIES.  
*Nucl. Sci. Eng.* 8, 608-14 (1960). (LADC-4396)
- 60-43 Champion, Glenn R.  
LOS ALAMOS SCIENTIFIC LABORATORY.  
Management of Nuclear Materials, Lumb, Ralph F. (ed)  
(Van Nostrand, New York), Chap. 18, p. 471-82 (1960).  
(LADC-NN-55)

- 60-44 Chezem, Curtis G.  
 URANIUM-METAL EXPONENTIAL EXPERIMENT.  
 Nucl. Sci. Eng. 8, 652-69 (1960). (LADC-4310)
- 60-45 Christensen, Eldon L., Kelley, Cecil W., Beaumont, Arthur J.,  
 and Humphrey, James R.  
 DISTRIBUTION OF PLUTONIUM AND SELECTED IMPURITY ELEMENTS  
 BETWEEN NITRATE SOLUTIONS AND Tri-n-Butyl PHOSPHATE.  
Extractive and Physical Metallurgy of Plutonium and Its  
 Alloys, Wilkinson, W. D. (ed) (Interscience, New York)  
 p. 75-88 (1960). (LADC-3966)
- 60-46 Coffinberry, Arthur S., Schonfeld, Fred W., Waber, James T.,  
 Kelman, Leroy R., and Tipton, Clyde R., Jr.  
 PLUTONIUM AND ITS ALLOYS.  
Reactor Handbook, 2nd ed., vol. 1, Tipton, C. R., Jr. (ed)  
 (Interscience, New York), Chap. 11, p. 248-90, (1960).  
 (LADC-NN-79)
- 60-47 Coleman, James S. and Penneman, Robert A.  
 Untitled Communication (a graph demonstrating the relation-  
 ship between the potentials of the plutonium oxidation  
 states).  
 J. Chem. Educ. 37, 438 (1960). (LADC-NN-7)
- 60-48 Coon, James H.  
 TARGETS FOR THE PRODUCTION OF NEUTRONS.  
Fast Neutron Physics, Marion, J. B. and Fowler, J. L. (eds)  
 (Interscience, New York), Pt. I, Chap. IV.D, p. 677-720,  
 (1960). (LADC-NN-56)
- 60-49 Cowan, Robert E.  
 HOW TO CLASSIFY CERAMIC LITERATURE.  
 Ceram. Age 72, 21-3 (1960). (LADC-4106)
- 60-50 Cox, Arthur N. and Brownlee, Robert R.  
 TIME DEPENDENT SOLAR MODEL.  
 Mem. Soc. Roy. Sci. Liege. 5, 3, 469-78 (1960).  
 (LADC-3846)

- 60-51 Craig, Paul P.  
EXPERIMENTAL ASPECTS AND APPLICATIONS OF THE MOSSBAUER EFFECT.  
Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Ontario, 22-33 (1960). (LADC-4462)
- 60-52 Craig, Paul P., Nagle, Darragh E., and Reiswig, Robert D.  
RESONANT ABSORPTION OF GAMMA RADIATION IN SUPERCONDUCTORS.  
Phys. Chem. Solids 17, 168-70 (1960). (LADC-4223)
- 60-53 Craig, Paul P., Nagle, Darragh E., and Cochran, Donald R. F.  
ZEEMAN EFFECT IN THE RECOILLESS  $\gamma$ -RAY RESONANCE OF Zn<sup>67</sup>.  
Phys. Rev. Letters 4, 561-4 (1960). (LADC-4344)
- 60-54 Cramer, Eugene M., Ellinger, Finley H., and Land, Cletis C.  
PLUTONIUM-ZINC PHASE DIAGRAM.  
Extractive and Physical Metallurgy of Plutonium and Its Alloys, Wilkinson, W. D. (ed) (Interscience, New York), p. 169-80 (1960). (LADC-3601)
- 60-55 Cranberg, Lawrence.  
EXPERIMENTAL DATA ON LOW ENERGY NEUTRON SCATTERING AT LOS ALAMOS.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C. and Power, E. A. (eds) (Pergamon Press, New York), p. 473-80 (1960). (LADC-NN-3)
- 60-56 Cranberg, Lawrence and Rosen, Louis.  
MEASUREMENT OF FAST NEUTRON SPECTRA.  
Nuclear Spectroscopy, Ajzenberg-Selov, Fay (ed) (Academic Press, New York), p. 358-98 (1960). (LADC-3159)
- 60-57 Cranberg, Lawrence and Rosen, Louis.  
STUDY OF BOUND NUCLEAR STATES.  
Nuclear Spectroscopy, Ajzenberg-Selove, Fay (ed) (Academic Press, New York), p. 399-415 (1960). (LADC-NN-60)
- 60-58 Cromer, Don T., Larson, Allen C., and Roof, Raymond B.  
CRYSTAL STRUCTURE OF CeCu<sub>6</sub>.  
Acta Cryst. 13, 913-8 (1960). (LADC-4125)

- 60-59 Cromer, Don T. and Larson Allen C.  
CRYSTAL STRUCTURE OF  $\text{PuNi}_4$ .  
Acta Cryst. 13, 909-12 (1960). (LADC-4082)
- 60-60 Dash, Jay G., Taylor, R. Dean, Craig, Paul P., Nagle, Darragh E., Cochran, Donald R. F., and Keller, William E.  
MOSSBAUER EFFECT IN  $\text{Fe}^{57}$  AT VERY LOW TEMPERATURES.  
Phys. Rev. Letters 5, 152-4 (1960). (LADC-4434)
- 60-61 Dash, Jay Gregory, Taylor, R. Dean, and Craig, Paul P.  
SPECIFIC HEAT OF DYSPROSIUM METAL.  
Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Ontario, 705-6 (1960). (LADC-4383)
- 60-62 Davis, William C. and Campbell, Arthur W.  
ULTRA-HIGH-SPEED PHOTOGRAPHS REFUTING "COHESION IN PLASMA".  
J. Appl. Phys. 31, 1225-27 (1960). (LADC-4192)
- 60-63 Day, Robert B. and Walt, Martin.  
GAMMA RAYS FROM NEUTRON INELASTIC SCATTERING IN  $\text{B}^{10}$ ,  $\text{F}^{19}$ , AND  $\text{Fe}^{56}$ .  
Phys. Rev. 117, 1330-33 (1960). (LADC-3984)
- 60-64 Diven, Ben C., Terrell, James, and Hemmendinger, Arthur.  
RADIATIVE CAPTURE CROSS SECTIONS FOR FAST NEUTRONS.  
Phys. Rev. 120, 556-69 (1960). (LADC-3378)
- 60-65 Domer, Floyd R. and Hayes, F. Newton.  
BACKGROUND vs. EFFICIENCY IN LIQUID SCINTILLATORS.  
Nucleonics 18, 1, 100 (1960). (LADC-3822)
- 60-66 Dreicer, Harry.  
ELECTRON AND ION RUNAWAY IN A FULLY IONIZED GAS. II.  
Phys. Rev. 117, 329-42 (1960). (LADC-3917)
- 60-67 Dreicer, Harry.  
ELECTRON VELOCITY DISTRIBUTIONS IN A PARTIALLY IONIZED GAS.  
Phys. Rev. 117, 343-54 (1960). (LADC-3916)

- 60-68 Dropesky, Bruce J., Schardt, Alois W., and Shull, Theodore T.  
NOTE ON THE DECAY OF THE NEW NUCLEIDE Cr<sup>56</sup>.  
Nucl. Phys. 16, 357-9 (1960). (LADC-4072)
- 60-69 Edeskuty, Frederick J. and Sherman, Robert H.  
P-V-T MEASUREMENTS OF LIQUID He<sup>3</sup>.  
Intern. Congr. Refrig., 10th, 1, 170-3 (1960). (LADC-3720)
- 60-70 Ellinger, Finley H., Land, Cletis C., and Cramer, Eugene M.  
PLUTONIUM-CERIUM PHASE DIAGRAM.  
Extractive and Physical Metallurgy of Plutonium and Its Alloys, Wilkinson, W. D. (ed) (Interscience, New York),  
p. 149-67 (1960). (LADC-3698)
- 60-71 Elliott, Guy R. B. and Lemons, Joe F.  
BALANCED ISOPIESTIC APPARATUS. APPLICATION TO CeCd<sub>6</sub> SOLID SOLUTION SYSTEMS.  
J. Phys. Chem. 64, 137-45 (1960). (LADC-3787 and LADC-3890)
- 60-72 Elliott, Reed O. and Gschneidner, Karl A.  
BEHAVIOR OF SOME DELTA-STABILIZED PLUTONIUM ALLOYS AT HIGH PRESSURES.  
Extractive and Physical Metallurgy of Plutonium and Its Alloys, Wilkinson, W. D. (ed) (Interscience, New York),  
p. 243-62 (1960). (LADC-3654)
- 60-73 Enders, John W.  
RADIOACTIVE TRASH DISPOSAL AT LOS ALAMOS.  
Am. Ind. Hyg. Assoc. J. 21, 151-5 (1960). (LADC-3532)
- 60-74 Engle, Leon B., Hansen, Gordon E., and Paxton, Hugh C.  
REACTIVITY CONTRIBUTIONS OF VARIOUS MATERIALS IN TOPSY, GODIVA, AND JEZEBEL.  
Nucl. Sci. Eng. 8, 543-69 (1960). (LADC-4362)
- 60-75 Enoch, Jacob.  
EQUIVALENCE OF THE LANDAU AND FOKKER-PLANCK COLLISION TERMS.  
Phys. Fluids 3, 353-4 (1960). (LADC-4128)

- 60-76 Enoch, Jacob and Ranken, William A.  
 EXPERIMENTS AND INTERPRETATION ON CESIUM DIODES.  
 Proc. Intern. Conf. Ionization Phenomena Gases, 4th,  
 Uppsala, August 17-21, 1959. 1, 482-85 (1960).  
 (LADC-3865)
- 60-77 Farr, John D.  
 REACTION BETWEEN LITHIUM HYDRIDE AND RHODIUM TO FORM A  
 HYDRYL.  
 J. Inorg. & Nucl. Chem. 14, 202-7 (1960). (LADC-3979)
- 60-78 Fickett, Wildon and Wood, William Wayne.  
 SHOCK HUGONIOTS FOR LIQUID ARGON.  
 Phys. Fluids 3, 204-9 (1960). (LADC-4013)
- 60-79 Ford, George P.  
 ANALYSIS OF THE TWO-MODE-OF-FISSION HYPOTHESIS.  
 Phys. Rev. 118, 1261-70 (1960). (LADC-2868)
- 60-80 Foreman, Harry.  
 APPLICATION OF CHELATING AGENTS FOR HASTENING EXCRETION OF  
 RADIOELEMENTS.  
Metal-Binding in Medicine, Seven, J. M. and Johnson, L. A.  
 (eds) (J. B. Lippincott Co., Philadelphia, Pennsylvania),  
 p. 160-68 (1960). (LADC-4002)
- 60-81 Foreman, Harry.  
 THE PHARMACOLOGY OF SOME USEFUL CHELATING AGENTS.  
Metal-Binding in Medicine, Seven, J. M. and Johnson, L. A.  
 (eds) (J. B. Lippincott Co., Philadelphia, Pennsylvania),  
 p. 82-94 (1960). (LADC-3944)
- 60-82 Foreman, Harry, Moss, William D., and Langham, Wright.  
 PLUTONIUM ACCUMULATION FROM LONG-TERM OCCUPATIONAL EXPOSURE.  
 Health Phys. 2, 326-33 (1960). (LADC-3927)
- 60-83 Fowler, Clarence M., Garn, Wray B., and Caird, Robert S.  
 PRODUCTION OF VERY HIGH MAGNETIC FIELDS BY IMPLOSION.  
 J. Appl. Phys. 31, 588-94 (1960). (LADC-3655)

- 60-84 Fowler, Eric B., Christenson, Conard W., Journey, Edward T., and Schafer, William D.  
BACTERIAL "INFECTION" OF THE OMEGA WEST REACTOR.  
Nucleonics 18, 4, 102-5 (1960). (LADC-3625)
- 60-85 Frank, Robert M. and Lazarus, Roger B.  
HIGH-SPEED SORTING PROCEDURE.  
Commun. Assoc. Comput. Mach. 3, 20-2 (1960). (LADC-4076)
- 60-86 Fries, R. Jay and Kempter, Charles P.  
CRYSTALLOGRAPHIC DATA. 195. DIMOLYBDENUM CARBIDE.  
Anal. Chem. 32, 1898 (1960). (LADC-4425)
- 60-87 Gammel, John L.  
FEASIBILITY OF SPIN CORRELATION MEASUREMENTS IN ELASTIC SCATTERING EXPERIMENTS INVOLVING FEW NUCLEONS.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C. and Power, E. A. (eds) (Pergamon Press, New York), p. 451-4, (1960). (LADC-NN-23)
- 60-88 Gammel, John L., Brolley, John E., Jr., Rosen, Louis, and Stewart, Leona.  
 $\text{He}^3 + \text{He}^4$  ELASTIC SCATTERING.  
Proc. Intern. Conf. Nucl. Struct., Kingston, Canada, 215-7 (1960). (LADC-4411)
- 60-89 Gammel, John L., Hill, Benny J., and Thaler, Raphael.  
ELASTIC SCATTERING OF DEUTERONS BY  $\text{He}^4$ .  
Phys. Rev. 119, 267-71 (1960). (LADC-4175)
- 60-90 Gammel, John L. and Thaler, Roy M.  
PHENOMENOLOGY OF THE NUCLEON NUCLEON INTERACTION.  
Progr. Elem. Particle Cosmic Ray Phys. 5, 99-203 (1960). (LADC-3704)
- 60-91 Garn, Wray B.  
DETONATION PRESSURE OF LIQUID TNT.  
J. Chem. Phys. 32, 653-5 (1960). (LADC-3949)

- 60-92 Goldstein, Louis.  
SOME THERMAL PROPERTIES OF LIQUID HELIUM THREE.  
Phys. Rev. 117, 375-81 (1960). (LADC-3876)
- 60-93 Goldstein, Louis.  
THERMAL PROPERTIES OF SOLID He<sup>4</sup>.  
Phys. Rev. Letters 2, 104-5 (1960). (LADC-4428a)
- 60-94 Gould, R. Gordon.  
EFFECTS OF MER-29 ON STEROL CONCENTRATION IN RAT TISSUES AND  
ON CHOLESTEROL BIOSYNTHESIS IN VIVO AND IN VITRO FROM  
MEVALONIC ACID-2-C<sup>14</sup>.  
Progr. Cardiovascular Diseases 2, 492-503 (1960).  
(LADC-NN-14)
- 60-95 Griffin, James J. and Rich, Marvin.  
MOMENTS OF INERTIA OF EVEN-EVEN RARE EARTH NUCLEI.  
Phys. Rev. 118, 850-4 (1960). (LADC-4081)
- 60-96 Grundl, James and Usner, Arthur.  
SPECTRAL COMPARISONS WITH HIGH ENERGY ACTIVATION DETECTORS.  
Nucl. Sci. Eng. 8, 598-607 (1960). (LADC-4398)
- 60-97 Hakila, E. Arnold and Waterbury, Glenn R.  
SEPARATION AND SPECTROPHOTOMETRIC DETERMINATION OF MICROGRAM  
QUANTITIES OF MERCURY USING DIETHYLDITHIOCARBAMATE.  
Anal. Chem. 32, 1340-42 (1960). (LADC-4124)
- 60-98 Hakila, Eero Arnold and Waterbury, Glenn R.  
X-RAY FLUORESCENCE SPECTROGRAPHIC DETERMINATION OF IMPURITIES  
AND ALLOYING ELEMENTS IN TANTALUM CONTAINER MATERIALS.  
Talanta 6, 46-51 (1960). (LADC-3900)
- 60-99 Hansen, Gordon E.  
ASSEMBLY OF FISSIONABLE MATERIAL IN THE PRESENCE OF A WEAK  
NEUTRON SOURCE.  
Nucl. Sci. Eng. 8, 709-19 (1960). (LADC-4477)



- 60-100 Hansen, Gordon E., Wood, David P., and Geer, William U.  
CRITICAL MASSES OF ENRICHED-URANIUM CYLINDERS WITH MULTIPLE  
REFLECTORS OF MEDIUM-Z ELEMENTS.  
Nucl. Sci. Eng. 8, 588-94 (1960). (LADC-4376)
- 60-101 Hansen, Gordon E., Paxton, Hugh C., and Wood, David P.  
CRITICAL PLUTONIUM AND ENRICHED-URANIUM-METAL CYLINDERS OF  
EXTREME SHAPE.  
Nucl. Sci. Eng. 8, 570-7 (1960). (LADC-4397)
- 60-102 Hansen, Gordon E. and Maier, Clifford.  
PERTURBATION THEORY OF REACTIVITY COEFFICIENTS FOR FAST-  
NEUTRON CRITICAL SYSTEMS.  
Nucl. Sci. Eng. 8, 532-42 (1960). (LADC-4500)
- 60-103 Harary, Frank and Williamson, Ralph E.  
NOTE ON EVALUATING DETERMINANTS.  
Am. Math. Month. 67, 660 (1960). (LADC-3951)
- 60-104 Harary, Frank.  
ON THE CONSISTENCY OF PRECEDENCE MATRICES.  
J. Assoc. Comput. Mach. 7, 255-9 (1960). (LADC-3971)
- 60-105 Harary, Frank.  
SOME HISTORICAL AND INTUITIVE ASPECTS OF GRAPH THEORY.  
Rev. Soc. Ind. Appl. Math. 2, 123-31 (1960). (LADC-3983)
- 60-106 Harlow, James E., Murley, Eldon L., and Laquer, Henry L.  
VACUUM GASKETS FOR USE AT 20°K.  
Advan. Cryog. Eng. 5, 580-2 (1960). (LADC-3831)
- 60-107 Harrison, B. Kent.  
ELEMENTARY PROBLEMS AND SOLUTIONS SECTION. PROBLEMS FOR  
SOLUTION. E 1413.  
Am. Math. Month. 67, 378 (1960). (LADC-4045)

- 60-108 Harrison, B. Kent.  
ELEMENTARY PROBLEMS AND SOLUTIONS SECTION. SOLUTIONS. SOME  
SPECIAL INTEGERS. E 1413.  
Am. Math. Month. 67, 1030-31 (1960). (LADC-4045)
- 60-109 Hayes, Francis Newton, Hansbury, Elizabeth, and Kerr, Vernon N.  
CONTEMPORARY CARBON-14.  
Anal. Chem. 32, 617-20 (1960). (LADC-3964)
- 60-110 Hayes, Francis Newton, Hansbury, Elizabeth, Kerr, Vernon N.,  
and Williams, D. Lloyd.  
CONTEMPORARY CARBON-14 IN LEMONGRASS OIL.  
Z. Physik 158, 374-8 (1960). (LADC-4122)
- 60-111 Heller, Leon.  
PROTON-PROTON EFFECTIVE-RANGE THEORY WITH VACUUM POLARIZA-  
TION.  
Phys. Rev. 120, 627-34 (1960). (LADC-4044)
- 60-112 Hockett, John E.  
CALCULATION OF ROLLING FORCES USING THE OROWAN THEORY.  
Trans. Am. Soc. Metals 52, 675-97 (1960). (LADC-3551)
- 60-113 Huber, Elmer J., Head, Earl L., and Holley, Charles E.  
HEAT OF COMBUSTION OF LUTETIUM.  
J. Phys. Chem. 64, 1768-69 (1960). (LADC-4249)
- 60-114 Huber, Elmer J., Head, Earl L., and Holley, Charles E.  
HEAT OF COMBUSTION OF THULIUM.  
J. Phys. Chem. 64, 379 (1960). (LADC-3764)
- 60-115 Humason, Gretchen L. and Lushbaugh, Clarence C.  
SELECTIVE DEMONSTRATION OF ELASTIN, RETICULUM AND COLLAGEN  
BY SILVER, ORCEIN AND ANILINE BLUE.  
Stain Technol. 35, 209-14 (1960). (LADC-4162)

- 60-116 Hyatt, Edwin C., Schulte, Harry F., Jensen, Carl R., Mitchell, Robert N., and Ferran, Gilbert H.  
 STUDY OF TWO-STAGE AIR SAMPLERS DESIGNED TO STIMULATE THE UPPER AND LOWER RESPIRATORY TRACT.  
 Proc. Intern. Congr. Occupational Health, 13th, New York City, July 25-29, 1960. p. 486-503 (1960). (LADC-4438)
- 60-117 Igel, Eugene A. and Deem, Thomas E.  
 MANUFACTURE OF SHADOWGRAPH SLITS BY METAL EVAPORATION.  
 J. Optical Soc. Am. 50, 394-5 (1960). (LADC-4014)
- 60-118 Igo, George.  
 OPTICAL MODEL ANALYSIS OF THE SCATTERING OF ALPHA PARTICLES FROM HELIUM.  
 Phys. Rev. 117, 1079-85 (1960). (LADC-3953)
- 60-119 Imlah, Katherine.  
 ETCHING OF PLUTONIUM AND ITS ALLOYS BY CATHODIC BOMBARDMENT.  
Extractive and Physical Metallurgy of Plutonium and Its Alloys, Wilkinson, W. D. (ed) (Interscience, New York), p. 189-214 (1960). (LADC-3616)
- 60-120 Jackson, Jasper A., Lemons, Joe F., and Taube, Henry.  
 NUCLEAR MAGNETIC RESONANCE STUDIES ON HYDRATION OF CATIONS.  
 J. Chem. Phys. 32, 553-5 (1960). (LADC-4038)
- 60-121 Jahoda, Franz C., Little, Edward M., Quinn, Warren E., Sawyer, George A., and Stratton, Thomas F.  
 CONTINUUM RADIATION IN THE X-RAY AND VISIBLE REGIONS FROM A MAGNETICALLY COMPRESSED PLASMA (SCYLLA).  
 Phys. Rev. 119, 843-56 (1960). (LADC-4244)
- 60-122 Jarmie, Nelson and Silbert, Myron G.  
 ENERGY LEVELS OF  $N^{17}$ ,  $O^{18}$ , AND  $O^{20}$ .  
 Proc. Intern. Conf. Nucl. Struct., Kingston, Canada, 1960. p. 491-94 (1960), and p. 950 (1960). (LADC-4346)
- 60-123 Jarmie, Nelson and Silbert, Myron G.  
 NUCLEAR ENERGY LEVELS OF  $N^{17}$ ,  $O^{18}$ , AND  $O^{20}$ .  
 Phys. Rev. 120, 914-9 (1960). (LADC-4346)

- 60-124 Jarmie, Nelson and Silbert, Myron G.  
 $N^{16}$  LEVELS AND TWO-STAGE "LUMPS".  
 Nucl. News (Israel), 6-7 (December 1960). (LADC-4595)
- 60-125 Jarvis, George A., Linenberger, Gustave A., Orndoff, John D.,  
 and Paxton, Hugh C.  
 TWO PLUTONIUM-METAL CRITICAL ASSEMBLIES.  
 Nucl. Sci. & Eng. 8, 525-31 (1960). (LADC-4364)
- 60-126 Jones, Llewellyn H.  
 DEGENERATE C-H STRETCHING FUNDAMENTAL OF  $CH_3D$ .  
 J. Mol. Spectr. 4, 84-91 (1960). (LADC-3693)
- 60-127 Jones, Llewellyn H.  
 ELECTRON  $\pi$  INTERACTION POTENTIAL FUNCTION FOR  $Ni(CO)_4$  AND  
 RELATED MOLECULES.  
 J. Mol. Spectr. 5, 133-47 (1960). (LADC-4227)
- 60-128 Jones, Llewellyn H.  
 EQUILIBRIUM CONSTANT FOR ISOTOPE EXCHANGE IN AMMONIA FROM IN-  
 FRARED SPECTRA.  
 J. Chem. Phys. 33, 1585-86 (1960). (LADC-4423)
- 60-129 Kalmus, Ernest H.  
 PREPARATION OF AEROSOLS FOR ELECTRONMICROSCOPY.  
 Z. Wiss. Mikroskopie 64, 414-8 (1960). (LADC-1412b)
- 60-130 Kammash, Terry.  
 ELASTIC-PLASTIC THERMAL STRESSES IN TUBES SUBJECTED TO UNI-  
 FORM HEAT GENERATION EVALUATION OF EXPERIMENTAL RESULTS  
 OBTAINED USING GRAPHITE TUBES.  
 Nucl. Sci. Eng. 7, 425-34 (1960). (LADC-4003)
- 60-131 Kaufman, Daniel E.  
 FINDING ULTRASONIC VELOCITY.  
 Electronics 33, 112-4 (1960). (LADC-4195)

- 60-132 Keepin, George Robert and Cox, Clarice W.  
GENERAL SOLUTION OF THE REACTOR KINETIC EQUATIONS.  
Nucl. Sci. Eng. 8, 670-90 (1960). (LADC-4489)
- 60-133 Keil, Robert W., Hanks, Gale S., and Taub, James M.  
BRAZING AND SOLDERING OF BERYLLIUM.  
Welding J., Suppl. 39, 406s-10s (1960). (LADC-3891)
- 60-134 Keller, William E. and Hammel, Edward F., Jr.  
HEAT CONDUCTION AND FOUNTAIN PRESSURE IN LIQUID He II.  
Ann. Phys. 10, 202-31 (1960). (LADC-4141)
- 60-135 Kempter, Charles P., Storms, Edmund K., and Fries, R. Jay.  
LATTICE DIMENSION OF NbC AS A FUNCTION OF STOICHIOMETRY.  
J. Chem. Phys. 33, 1873-74 (1960). (LADC-4478)
- 60-136 Kempter, Charles P. and Nadler, Marion R.  
PREPARATION AND CRYSTAL STRUCTURE OF RuC AND OsC.  
J. Chem. Phys. 33, 1580-81 (1960). (LADC-4442)
- 60-137 Kempter, Charles P. and Nadler, Marion R.  
THERMAL DECOMPOSITION OF NIOBIUM AND TANTALUM MONOCARBIDES.  
J. Chem. Phys. 32, 1477-81 (1960). (LADC-4046)
- 60-138 Kempter, Charles P., Elliott, Reed O., and Gschneidner, Karl A.  
THERMAL EXPANSION OF DELTA AND EPSILON ZIRCONIUM HYDRIDES.  
J. Chem. Phys. 33, 837-40 (1960). (LADC-4221)
- 60-139 Kempter, Charles P. and Fries, R. Jay.  
ZIRCONIUM CARBIDE.  
Anal. Chem. 32, 570 (1960). (LADC-4165)
- 60-140 Kerr, Vernon N., Ott, Donald G., and Hayes, Francis Newton.  
QUARTERNARY SALT FORMATION OF SUBSTITUTED OXAZOLES AND THIAZOLES.  
J. Am. Chem. Soc. 82, 186-9 (1960). (LADC-3826)

- 60-141 Kircher, John A.  
 FABRICATION OF U<sup>233</sup>.  
Management of Nuclear Materials, Lumb, Ralph F. (ed)  
 (Van Nostrand, New York), Chap. 11, p. 299-316 (1960).  
 (LADC-3253)
- 60-142 Kissinger, Leonard W. and Ungnade, Herbert E.  
 CONVERSION OF ALDOXIMES TO ALPHA-OXIMINONITRILES, ALPHA,  
 ALPHA-DINITRONITRILES, AND 1, 1-DINITROPARAFFINS.  
 J. Org. Chem. 25, 1471-73 (1960). (LADC-4181)
- 60-143 Krikorian, Nerses H., Witteman, Willard G., and Bowman, Melvin  
 G.  
 PREPARATION, CRYSTAL STRUCTURES AND SOME PROPERTIES OF  
 ZIRCONIUM AND HAFNIUM DIBROMIDE.  
 J. Phys. Chem. 64, 1517-19 (1960). (LADC-4323)
- 60-144 Langham, Wright H.  
 RADIOISOTOPE ABSORPTION AND METHODS OF ELIMINATION: RELATIVE  
 SIGNIFICANCE OF PORTALS OF ENTRY.  
 Symp. Radioisotopes Biosphere, University of Minnesota,  
 October 19-23, 1959. p. 489-513 (1960). (LADC-4031)
- 60-145 Langham, Wright H.  
 SOME RADIATION PROBLEMS OF SPACE CONQUEST.  
 Astronaut. Sci. Rev., 7th Annual Meeting Issue, p. 9-18  
 (1960). Also: in Appendix A to Trip Report, 11th Intern.  
 Astronaut. Congr., Stockholm, August 15-20, 1960.  
 Konecni, E. B. (comp). p. 15-62. (LADC-3618)
- 60-146 Laquer, Henry L.  
 HANDLING LIQUID HYDROGEN ON A PILOT-PLANT SCALE.  
 Advan. Cryog. Eng. 5, 85-94 (1960). (LADC-3830)
- 60-147 Laquer, Henry L.  
 LOS ALAMOS HIGH FIELD MAGNET.  
 Advan. Cryog. Eng. 2, 117-9 (1960). (LADC-2498)

- 60-148 Leachman, Robert B. and Ford, George P.  
FORE-AFT YIELDS OF FRAGMENTS FROM 14-MEV NEUTRON-INDUCED  
FISSION.  
Nucl. Phys. 19, 366-9 (1960). (LADC-4168)
- 60-149 Leary, Joseph A.  
REACTOR FUEL REPROCESSING IN THE U.S.  
J. Metals 12, 341-3 (1960). (LADC-4158)
- 60-150 Lee, Clarence E., Gammel, John L., and Thaler, Raphael.  
NON-LOCALITY IN THE TWO-NUCLEON INTERACTION.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C.  
and Power, E. A. (eds) (Pergamon Press, New York),  
p. 43-4 (1960). (LADC-3863)
- 60-151 Lehner, Joseph.  
FOURIER COEFFICIENTS OF AUTOMORPHIC FORMS ON HOROCYCLIC  
GROUPS, III.  
Mich. Math. J. 7, 65-74 (1960). (LADC-3851)
- 60-152 Lewis, Harold W. and Reitz, John R.  
EFFICIENCY OF THE PLASMA THERMOCOUPLE.  
J. Appl. Phys. 31, 723-7 (1960). (LADC-3982)
- 60-153 Linenberger, Gustave A., Orndoff, John D., and Paxton, Hugh C.  
ENRICHED-URANIUM HYDRIDE CRITICAL ASSEMBLIES.  
Nucl. Sci. Eng. 7, 44-57 (1960). (LADC-2586)
- 60-154 Louck, James.  
GENERALIZED ORBITAL ANGULAR MOMENTUM AND THE  $n$ -FOLD  
DEGENERATE QUANTUM-MECHANICAL OSCILLATOR. PART II. THE  
 $n$ -FOLD DEGENERATE OSCILLATOR.  
J. Mol. Spectr. 4, 298-333 (1960). (LADC-3707b)
- 60-155 Louck, James D.  
GENERALIZED ORBITAL ANGULAR MOMENTUM AND THE  $n$ -FOLD DEGENERATE  
QUANTUM-MECHANICAL OSCILLATOR. PART III. RADICAL  
INTEGRALS.  
J. Mol. Spectr. 4, 334-41 (1960). (LADC-3707c)

- 60-156 Loughran, E. Dan and Mader, Charles.  
 APPEARANCE POTENTIAL STUDY OF TETRAFLUOROHYDRAZINE.  
 J. Chem. Phys. 32, 1578-79 (1960). (LADC-4150)
- 60-157 Lushbaugh, Clarence C., Rose, Jesse, and Wilson, Dean.  
 PRACTICAL MEANS FOR ROUTINE APPROXIMATION OF THE TIME OF  
 RECENT DEATH.  
 Police, Sept./Oct. (1960). (LADC-4200)
- 60-158 Lushbaugh, Clarence C., Sutton, Jerry, and Richmond, Chester R.  
 QUESTION OF ELECTROLYTE LOSS IN THE INTESTINAL DEATH SYNDROME  
 OF RADIATION DAMAGE.  
 Radiation Res. 13, 814-24 (1960). (LADC-4107)
- 60-159 McCullough, Roy L., Jones, Llewellyn H., and Crosby, Glenn  
 Arthur.  
 ANALYSIS OF THE VIBRATIONAL SPECTRUM OF THE TETRACYANONICKEL-  
 ATE(II) ION IN A CRYSTAL LATTICE.  
 Spectrochim. Acta 16, 929-44 (1960). (LADC-4213)
- 60-160 McCullough, Roy L., Jones, Llewellyn H., and Penneman, Robert  
 A.  
 INFRARED AND VISIBLE ABSORPTION STUDIES OF THE PENTACYANO-  
 NICKELATE(II) ION IN AQUEOUS SOLUTION.  
 J. Inorg. & Nucl. Chem. 13, 286-97 (1960). (LADC-3928)
- 60-161 McGuire, Joseph C. and Kempter, Charles P.  
 PREPARATION AND PROPERTIES OF SCANDIUM DIHYDRIDE.  
 J. Chem. Phys. 33, 1584-85 (1960). (LADC-4441)
- 60-162 McInteer, Bertus B. and Reisfeld, Martin J.  
 THERMAL-DIFFUSION-COLUMN SHAPE FACTORS FOR THE LENNARD-  
 JONES (12-6) POTENTIAL.  
 J. Chem. Phys. 33, 570-3 (1960). (LADC-4169a)
- 60-163 McNeese, Wilbur D. and Maraman, William J.  
 INCINERATOR FOR RADIOACTIVE RESIDUE.  
 Ind. Eng. Chem. 52, 79A-81A (1960). (LADC-3790)



- 60-164 McQueen, Robert G. and Marsh, Stanley Peter.  
EQUATION OF STATE FOR NINETEEN METALLIC ELEMENTS FROM SHOCK-  
WAVE MEASUREMENTS TO TWO MEGABARS.  
J. Appl. Phys. 31, 1253-69 (1960). (LADC-4020)
- 60-165 Manley, John H.  
NEUTRON CAPTURE REACTIONS.  
Phys. Today 13, 22-4 (March 1960). (LADC-PUB-240)
- 60-166 Maraman, William J.  
PLUTONIUM FABRICATION.  
Management of Nuclear Materials, Lumb, Ralph F. (ed)  
(Van Nostrand, New York), Chap. 10, p. 277-98 (1960).  
(LADC-3299)
- 60-167 Marshall, John.  
PERFORMANCE OF A HYDROMAGNETIC PLASMA GUN.  
Phys. Fluids 3, 135 (1960). (LADC-3996)
- 60-168 Mather, Joseph W. and Williams, Arthur H.  
SOME PROPERTIES OF A GRADED VACUUM SPARK GAP.  
Rev. Sci. Instr. 31, 297-303 (1960). (LADC-4022)
- 60-169 Meadows, Jesse W. T. and Matlack, George M.  
DETERMINATION OF RADIOACTIVE ZIRCONIUM IN FISSIONED  
PLUTONIUM.  
Anal. Chem. 32, 1607-10 (1960). (LADC-4389)
- 60-170 Meadows, Jesse W. T., Matlack, George M., and Nelson, Gilbert B.  
FISSION-PRODUCT ANALYSIS OF FAST-REACTOR PLUTONIUM FUELS.  
Talanta 6, 246-53 (1960). (LADC-3902)
- 60-171 Metz, Charles F. and Waterbury, Glenn R.  
ANALYTICAL LABORATORIES FOR THE HANDLING OF PLUTONIUM.  
Talanta 6, 149-53 (1960). (LADC-3899)

- 60-172 Mohler, Ronald R.  
 STABILITY AND CONTROL OF NUCLEAR ROCKET PROPULSION.  
 IRE Paper No. 6OAC-8. Presented at: Joint Automatic  
 Control Conference, Massachusetts Institute of Technology,  
 Cambridge, Massachusetts, September 7-9, 1960.  
 (IADC-4230)
- 60-173 Motz, Henry T. and Carter, Robert E.  
 NEUTRON CAPTURE GAMMA RAYS.  
 Proc. Intern. Conf. Nuclidic Masses, McMaster University,  
 Hamilton, Ontario, September 12-16, 1960, p. 299-316.  
 (IADC-4512)
- 60-174 Mullins, Lawrence J., Leary, Joseph A., and Maraman, William J.  
 REMOVAL OF FISSION PRODUCT ELEMENTS BY SLAGGING.  
 Ind. Eng. Chem. 52, 227-30 (1960). (IADC-3609)
- 60-175 Mullins, Lawrence J., Leary, Joseph A., and Johnson, Karl  
 William R.  
 REMOVAL OF FISSION PRODUCT ELEMENTS FROM PLUTONIUM BY  
 LIQUATION.  
Extractive and Physical Metallurgy of Plutonium and Its  
 Alloys, Wilkinson, W. D. (ed) (Interscience, New York),  
 p. 101-08 (1960). (IADC-3609)
- 60-176 Nadler, Marion R. and Kempter, Charles P.  
 SOME SOLIDUS TEMPERATURES IN SEVERAL METAL-CARBON SYSTEMS.  
 J. Phys. Chem. 64, 1468-71 (1960). (IADC-4260)
- 60-177 Nagle, Darragh, Craig, Paul P., Dash, Jay G., and Reiswig,  
 Robert D.  
 NUCLEAR RESONANCE FLUORESCENCE IN Au<sup>197</sup>.  
 Phys. Rev. Letters 4, 237-9 (1960). (IADC-4164)
- 60-178 Nagle, Darragh E., Frauenfelder, Hans, Taylor, R. Dean, Cochran,  
 Donald R. F., and Matthias, Bernd T.  
 TEMPERATURE DEPENDENCE OF THE INTERNAL FIELD IN FERROMAGNETS.  
 Phys. Rev. Letters 5, 364-5 (1960). (IADC-4548)

- 60-179 Nagle, Darragh E., Craig, Paul P., and Keller, William E.  
ULTRA-HIGH RESOLUTION  $\gamma$ -RAY RESONANCE IN ZINC-67.  
Nature 186, 707-8 (1960). (LADC-4295)
- 60-180 Nagle, Darragh E., Quinn, Warren E., Ribe, Fred L., and  
Riesenfeld, Werner B.  
VELOCITY SPECTRUM OF PROTONS AND TRITONS FROM THE d-d  
REACTION IN SCYLLA.  
Phys. Rev. 119, 857-62 (1960). (LADC-4243)
- 60-181 Newton, Thomas W. and Cowan, Helen D.  
KINETICS OF THE REACTION BETWEEN Pu(IV) AND Fe(II).  
J. Phys. Chem. 64, 244-7 (1960). (LADC-3986)
- 60-182 Olsen, Clayton E.  
MAGNETIC PROPERTIES OF URANIUM DIGERMANIDE.  
J. Appl. Phys., Suppl., 31, 340S-1S (1960). (LADC-3968)
- 60-183 Onstott, Edward I.  
SEPARATION OF THE LANTHANONS AT AMALGAM CATHODES. IV. HIGH  
PURITY YTTERBIUM FROM MIXTURES OF HEAVY LANTHANONS BY  
AQUEOUS ELECTROLYSIS.  
J. Am. Chem. Soc. 82, 6297-99 (1960). (LADC-3845)
- 60-184 Orth, Charles J. and Smith, Ronald K.  
SHORT-LIVED ISOTOPES OF Nb AND Zr FROM FISSION.  
J. Inorg. & Nucl. Chem. 15, 4-17 (1960). (LADC-3884)
- 60-185 Ott, Donald G., Kerr, Vernon N., Hayes, Francis Newton, and  
Hansbury, Elizabeth.  
LIQUID SCINTILLATORS. XII. ABSORPTION AND FLUORESCENCE  
SPECTRA OF 2,5-DIARYL-1,3,4-OXIDIAZOLES.  
J. Org. Chem. 25, 872-3 (1960). (LADC-4077)
- 60-186 Penneman, Robert A. and Keenan, Thomas K.  
RADIOCHEMISTRY OF AMERICIUM AND CURIUM, (1960).  
(Nuclear Science Series. NAS-NS-3006. Available from  
OTS, Washington, D. C.) (LADC-4069)

- 60-187 Perry, Joseph E., Jr.  
NEUTRON FLUX MEASUREMENTS.  
Fast Neutron Physics, Marion, J. B. and Fowler, J. L. (eds)  
(Interscience, New York), Pt. I, Chap. IV.B, p. 623-56  
(1960). (LADC-4245)
- 60-188 Petersen, Donald F. and Murray, Arthur, III.  
SIMPLE FLUORESCENT INTENSIFICATION SCREEN FOR ULTRAVIOLET  
SCANNER CAMERAS.  
Anal. Chem. 32, 443 (1960). (LADC-3954)
- 60-189 Plassmann, Eugene A. and Wood, David P.  
CRITICAL REFLECTOR THICKNESSES FOR SPHERICAL U<sup>233</sup> AND Pu<sup>239</sup>  
SYSTEMS.  
Nucl. Sci. Eng. 8, 615-20 (1960). (LADC-4363)
- 60-190 Pretzel, Frank E., Rupert, George, Mader, Charles L., Storms,  
Edmund K., Gritton, George Vance, and Rushing, C. Carey.  
PROPERTIES OF LITHIUM HYDRIDE. I. SINGLE CRYSTALS.  
Phys. Chem. Solids 16, 10-20 (1960). (LADC-4356)
- 60-191 Rabideau, Sherman W. and Kline, Robert Joseph.  
KINETICS OF OXIDATION-REDUCTION REACTIONS OF PLUTONIUM. THE  
REACTION BETWEEN PLUTONIUM (IV) AND TITANIUM (III) IN  
PERCHLORATE SOLUTION.  
J. Phys. Chem. 64, 193-6 (1960). (LADC-3650a)
- 60-192 Rabideau, Sherman W.  
KINETICS OF THE REACTION BETWEEN PLUTONIUM (IV) AND TIN (II).  
J. Phys. Chem. 64, 1491-96 (1960). (LADC-4294)
- 60-193 Rabideau, Sherman W. and Kline, Robert Joseph.  
KINETICS OF THE REACTION BETWEEN PLUTONIUM (IV) AND  
VANADIUM (III) IN PERCHLORATE SOLUTION.  
J. Inorg. & Nucl. Chem. 14, 91-7 (1960). (LADC-3905)
- 60-194 Rabideau, Sherman W. and Kline, Robert Joseph.  
SPECTROPHOTOMETRIC STUDY OF THE HYDROLYSIS OF PLUTONIUM (IV).  
J. Phys. Chem. 64, 680-2 (1960). (LADC-4068)

- 60-195 Ranken, William A., Grover, George M., and Salmi, Ernest W.  
 EXPERIMENTAL INVESTIGATIONS OF THE CESIUM PLASMA CELL.  
 J. Appl. Phys. 31, 2140-53 (1960). (LADC-4102)
- 60-196 Ranken, William A. and Frank, Thurman G.  
 UTILIZATION OF PLASMA-CELL ENERGY CONVERSION IN NUCLEAR  
 REACTORS.  
 Aero/Space Eng. 19, 5, 58-9 (May 1960). (LADC-4103)
- 60-197 Reavis, James G., Johnson, Karl William R., Leary, Joseph A.,  
 Morgan, Arthur N., Ogard, Allen E., and Walsh, Kenneth A.  
 PREPARATION OF PLUTONIUM HALIDES FOR FUSED SALT STUDIES.  
Extractive and Physical Metallurgy of Plutonium and Its  
 Alloys, Wilkinson, W. D. (ed) (Interscience, New York),  
 p. 89-100 (1960). (LADC-3243)
- 60-198 Reines, Frederick, Cowan, Clyde L., Harrison, Francis B.,  
 McGuire, Austin D., and Kruse, Herald W.  
 DETECTION OF THE FREE ANTINEUTRINO.  
 Phys. Rev. 117, 159-73 (1960). (LADC-3913)
- 60-199 Reithel, Robert J. and Blackburn, James H.  
 METHOD OF TERMINATING THE ENERGY INPUT TO AN ELECTRICALLY  
 EXPLODED WIRE.  
 Rev. Sci. Instr. 31, 464 (1960). (LADC-4096)
- 60-200 Ribe, Fred L.  
 AEC-SPONSORED CTR RESEARCH.  
 Nucl. Eng. 5, 445-6 (1960). (LADC-4284)
- 60-201 Ribe, Fred L.  
 RECENT EXPERIMENTAL RESULTS ON FAST-COMPRESSION PLASMA  
 HEATING AND ROTATING PLASMAS.  
 Proc. Intern. Conf. Ionization Phenomena Gases, 4th,  
 Uppsala, August 17-21, 1959. 2, 1032-36 (1960).  
 (LADC-3869)

- 60-202 Richmond, Chester R., Trujillo, Theodore T., and Martin, Duncan W.  
 VOLUME AND TURNOVER OF BODY WATER IN DIPodomys DESERTI WITH TRITIATED WATER.  
 Proc. Soc. Exp. Biol. Med. 104, 9-11 (1960). (LADC-3937)
- 60-203 Roach, William H.  
 COMPUTATIONAL SURVEY OF IDEALIZED FAST BREEDER REACTORS.  
 Nucl. Sci. Eng. 8, 621-51 (1960). (LADC-4033)
- 60-204 Roberts, Thomas R. and Sydoriak, Stephen G.  
 DISCREPANCIES BETWEEN VARIOUS MEASUREMENTS OF LAMBDA TRANSITION TEMPERATURES OF He<sup>3</sup> - He<sup>4</sup> MIXTURES.  
 Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Ontario, 633-7 (1960). (LADC-4385)
- 60-205 Roberts, Thomas R. and Sydoriak, Stephen G.  
 SOUND VELOCITY, PHASE SEPARATION, AND LAMBDA TRANSITIONS OF He<sup>3</sup> - He<sup>4</sup> MIXTURES.  
 Phys. Fluids 3, 895-902 (1960). (LADC-4403)
- 60-206 Rodberg, Leonard S. and Thaler, Raphael Morton.  
 ANALYSIS OF THE SCATTERING OF K<sup>+</sup> MESONS IN EMULSION.  
 Phys. Rev. Letters 4, 372-5 (1960). (LADC-4095)
- 60-207 Rodberg, Leonard S.  
 INTERACTION RADIUS IN DIRECT REACTIONS.  
 Nucl. Phys. 21, 270-5 (1960). Also: Bull. Am. Phys. Soc. 2, 5, 426 (1960). (LADC-4435)
- 60-208 Rodberg, Leonard S.  
 OPTICAL MODEL AND INELASTIC SCATTERING.  
 Ann. Phys. 9, 373-90 (1960). (LADC-4001)
- 60-209 Rodberg, Leonard S.  
 RELATION BETWEEN ANGULAR DISTRIBUTION AND POLARIZATION IN THE OPTICAL MODEL.  
 Nucl. Phys. 15, 72-8 (1960). (LADC-3992)

- 60-210 Rogers, Raymond N., Yasuda, Stanley K., and Zinn, John.  
PYROLYSIS AS AN ANALYTICAL TOOL.  
Anal. Chem. 32, 672-8 (1960). (LADC-3989)
- 60-211 Rogers, Raymond N.  
RAPID COLORIMETRIC DETERMINATION OF PHOSPHORUS IN HIGH  
EXPLOSIVE COMPOSITIONS FOLLOWING A WET-ASHING PROCEDURE.  
Anal. Chem. 32, 1050 (1960). (LADC-4127)
- 60-212 Roof, Raymond B.  
EXPERIMENTAL DETERMINATION OF THE CHARACTERISTIC TEMPERATURE  
OF PuO<sub>2</sub>.  
J. Nucl. Mater. 2, 39-42 (1960). (LADC-3854)
- 60-213 Roof, Raymond B.  
REPLY TO COMMENTS ON "DETERMINATION OF ATOMIC SCATTERING  
FACTORS".  
J. Appl. Phys. 31, 1131 (1960). (LADC-3690b)
- 60-214 Rosen, Louis and Brolley, John E., Jr.  
DIFFUSION ELASTIQUE DE PROTONS POLARISES DE 10 MEV.  
J. Phys. Radium 21, 365-6 (1960). (LADC-3664)
- 60-215 Rosen, Louis.  
ELASTIC SCATTERING OF COMPLETELY POLARIZED 10 MEV PROTONS  
BY COMPLEX NUCLEI.  
Summer Meeting of Nuclear Physicists, 4th, September 1959.  
Lectures, p. 184-202 (1960). (LADC-4520)
- 60-216 Rosen, Louis.  
INTERACTION BETWEEN LIGHT NUCLEI.  
Summer Meeting of Nuclear Physicists, 4th, September 1959.  
Lectures, p. 150-82 (1960). (LADC-NN-1)
- 60-217 Rosen, Louis, Allen, Robert C., Armstrong, Alice H., Brolley,  
John E., Jr., Jarmie, Nelson, Leland, Wallace, and Stewart,  
Leona.  
LOS ALAMOS EXPERIMENTS ON CHARGED PARTICLE REACTIONS INVOLV-  
ING LIGHT NUCLEI.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C.  
and Power, E. A. (eds) (Pergamon Press, New York), p. 481-95  
(1960). (LADC-3868)

- 60-218 Rosen, Louis.  
POLARIZATION IN THE ELASTIC AND INELASTIC SCATTERING OF  
NUCLEONS.  
Proc. Intern. Conf. Nucl. Struct., Kingston, Ontario.  
p. 185-93 (1960). (LADC-4469)
- 60-219 Rosenthal, Stanley L.  
SOME ESTIMATES OF THE POWER SPECTRA OF LARGE-SCALE DISTURB-  
ANCES IN LOW LATITUDES.  
J. Meteorol. 17, 259-63 (1960). (LADC-3915)
- 60-220 Russell, John H.  
TURRET EXPERIMENT AT LOS ALAMOS SCIENTIFIC LABORATORY.  
Franklin Institute. Monograph 7, 127-32 (1960).  
(LADC-4073)
- 60-221 Salmi, Ernest W.  
PLASMA THERMIONIC CONVERTERS.  
Proc. Power Sources Conf., 14th, May 17-19, 1960.  
p. 10-12 (1960). (LADC-4315)
- 60-222 Sandenaw, Thomas A.  
HEAT CAPACITY, THERMAL EXPANSION AND ELECTRICAL RESISTIVITY  
OF AN 8 a/o ALUMINUM-PLUTONIUM (DELTA-PHASE STABILIZED)  
ALLOY BELOW 300°K.  
Phys. Chem. Solids 16, 329-36 (1960). (LADC-4145)
- 60-223 Sattizahn, James E., Knight, Jere D., and Kahn, Milton.  
SHORT-LIVED BROMINE AND SELENIUM NUCLIDES FROM FISSION.  
J. Inorg. & Nucl. Chem. 12, 206-22 (1960). (LADC-2750)
- 60-224 Savage, Albert and Browne, James C.  
SOLUBILITY OF URANIUM (IV) FLUORIDE IN AQUEOUS FLUORIDE  
SOLUTIONS.  
J. Am. Chem. Soc. 82, 4817-21 (1960). (LADC-4193)
- 60-225 Schott, Garry L.  
KINETIC STUDIES OF HYDROXYL RADICALS IN SHOCK WAVES. III.  
THE OH CONCENTRATION MAXIMUM IN THE HYDROGEN-OXYGEN REACTION.  
J. Chem. Phys. 32, 710-6 (1960). (LADC-4034)



- 60-226 Schulte, Harry F., Clayton, George D., Cralley, Lester V., Giever, Paul M., Greenburg, Leonard, Kay, Kingsley, Nelson, Norton, Radcliffe, Jack C., Sharrah, J. F., Smith, Ralph G., Stern, Arthur C., Turk, Amos, and Wanta, R. C.  
AIR POLLUTION MANUAL. Pt. I. EVALUATION. (American Industrial Hygiene Association, Detroit, Michigan) (1960).  
(LADC-NN-44)
- 60-227 Seagrave, John D., Cranberg, Lawrence, and Simmons, James E.  
ELASTIC SCATTERING OF FAST NEUTRONS BY TRITIUM AND He<sup>3</sup>.  
Phys. Rev. 119, 1981-91 (1960). (LADC-4348)
- 60-228 Seagrave, John D.  
T(p,n)He<sup>3</sup> REACTION AND ITS INVERSE.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C. and Power, E. A. (eds) (Pergamon Press, New York), p. 583-93 (1960). (LADC-3859)
- 60-229 Seegmiller, Robert and Gore, James K.  
CYANIDE BATH FOR HEAVY GOLD PLATING.  
Tech. Proc. Am. Electroplaters' Soc, 47th, p. 74-7 (1960).  
(LADC-4000)
- 60-230 Sherman, Robert H. and Edeskuty, Frederick J.  
PRESSURE-VOLUME-TEMPERATURE RELATIONS OF LIQUID He<sup>3</sup> FROM 1.00 TO 3.30°K.  
Ann. Phys. 9, 522-47 (1960). (LADC-3724)
- 60-231 Shipman, Thomas L.  
TRIUMPH OF PREVENTIVE MEDICINE IN THE RADIATION INDUSTRY.  
Reports Intern. Cong. Occupational Health, 13th, New York City, July 25-29, 1960. p. 642-5 (1960). (LADC-PUB-246)
- 60-232 Simmons, James E. and Henkel, Richard L.  
ANGULAR DISTRIBUTION OF FRAGMENTS IN FISSION INDUCED BY MEV NEUTRONS.  
Phys. Rev. 120, 198-210 (1960). (LADC-3896)

- 60-233 Spalding, John F., Strang, Verda G., and Worman, Frederick C. V.  
EFFECT OF GRADED ACUTE EXPOSURES OF GAMMA RAYS OR FISSION NEUTRONS ON SURVIVAL IN SUBSEQUENT PROTRACTED GAMMA-RAY EXPOSURES.  
Radiation Res. 13, 415-23 (1960). (LADC-4094)
- 60-234 Stampfer, Joseph F., Holley, Charles E., and Suttle, John F.  
MAGNESIUM-HYDROGEN SYSTEM.  
J. Am. Chem. Soc. 82, 3504-08 (1960). (LADC-3763)
- 60-235 Steinhaus, David W.  
RAPID PRECISION WAVE NUMBER MEASUREMENTS FROM FABRY-PEROT INTERFEROGRAMS.  
J. Optical Soc. Am. 50, 672-5 (1960). (LADC-3817)
- 60-236 Stewart, Leona, Brolley, John E., and Rosen, Louis.  
INTERACTION OF 6- TO 14-MEV DEUTERONS WITH HELIUM THREE AND TRITIUM.  
Phys. Rev. 119, 1649-53 (1960). (LADC-4325)
- 60-237 Stewart, Leona.  
LEAKAGE NEUTRON SPECTRUM FROM A BARE Pu<sup>239</sup> CRITICAL ASSEMBLY.  
Nucl. Sci. Eng. 8, 595-7 (1960). (LADC-4338)
- 60-238 Stokes, Richard H.  
COMPUTER FOR THE IDENTIFICATION OF CHARGED PARTICLES.  
Rev. Sci. Instr. 31, 768-72 (1960). (LADC-4121)
- 60-239 Storms, Edmund K., Krikorian, Nerses H., and Kempfer, Charles P.  
CRYSTALLOGRAPHIC DATA. 194. NIOBIUM MONOCARBIDE.  
Anal. Chem. 32, 1722 (1960). (LADC-4417)
- 60-240 Storms, Edmund K. and Krikorian, Nerses H.  
NIOBIUM - NIOBIUM CARBIDE SYSTEM.  
J. Phys. Chem. 64, 1471-77 (1960). Also: Am. Chem. Soc. Abstracts of Papers 137, 13M (1960). (LADC-4126)

- 60-241 Stratton, William R.  
A REVIEW OF CRITICALITY ACCIDENTS.  
Progr. Nucl. Energy 4, 3, 163-205 (1960). (LADC-3958)
- 60-242 Swartz, Blair K. and Wendroff, Burton.  
CONTINUED FUNCTION EXPANSIONS OF REAL NUMBERS.  
Am. Math. Soc. Proc. 11, 634-9 (1960). (LADC-4032)
- 60-243 Swihart, Thomas L.  
SERIES OF SUBDWARF ATMOSPHERES.  
Astron. J. 65, 403 (1960). (LADC-4308a)
- 60-244 Sydoriak, Stephen G., Roberts, Thomas R., and Sherman, Robert H.  
PROPOSAL FOR A NEW He<sup>3</sup> VAPOR SEAL.  
Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Ontario,  
p. 717-9 (1960). (LADC-4386)
- 60-245 Sydoriak, Stephen G., Mills, Robert L., and Grilly, Edward R.  
PVT ANOMALIES IN He<sup>3</sup> NEAR ITS MELTING CURVE.  
Phys. Rev. Letters 4, 495-7 (1960). (LADC-4330)
- 60-246 Sydoriak, Stephen G. and Roberts, Thomas R.  
VAPOR PRESSURES OF He<sup>3</sup> - He<sup>4</sup> MIXTURES.  
Phys. Rev. 118, 901-12 (1960). (LADC-4105)
- 60-247 Tate, Raymond E. and Anderson, Robert W.  
SOME EXPERIMENTS IN ZONE REFINING PLUTONIUM.  
Extractive and Physical Metallurgy of Plutonium and Its Alloys, Wilkinson, W. D. (ed) (Interscience, New York),  
p. 231-42 (1960). (LADC-3700)
- 60-248 Taylor, Grover M.  
AUTOMATIC DATA PROCESSING IN NONDESTRUCTIVE TESTING.  
Nondestructive Testing 18, 128-30 (1960). (LADC-3740)
- 60-249 Terrell, James.  
RELATIVISTIC OBSERVATIONS AND THE CLOCK PROBLEM.  
Nuovo Cimento, 10, 16, 457-68 (1960). (LADC-3821)

- 60-250 Thamer, Burton J.  
EXTRACTABLE COMPLEX OF DIBUTYL PHOSPHATE AND PHOSPHORIC ACID.  
J. Phys. Chem. 64, 694 (1960). (LADC-4051)
- 60-251 Tuck, James Leslie.  
LOS ALAMOS RESEARCH ON CONTROLLED THERMONUCLEAR REACTIONS.  
Proc. Intern. Conf. Ionization Phenomena Gases, 4th,  
Uppsala, August 17-21, 1959. 2, 920-8 (1960).  
(LADC-3872)
- 60-252 Tuck, James L.  
NEW PLASMA CONFINEMENT GEOMETRY.  
Nature 187, 863-4 (1960). (LADC-4424)
- 60-253 Ulam, Stanislaw M.  
COLLECTION OF MATHEMATICAL PROBLEMS (Interscience, New York),  
(1960). (LADC-NN-35)
- 60-254 Ungnade, Herbert E., Loughran, E. Dan, and Kissinger,  
Leonard W.  
ABSORPTION SPECTRA OF NITRO COMPOUNDS. FURTHER SOLVENT  
PERTURBATIONS.  
J. Phys. Chem. 64, 1410-15 (1960). (LADC-3264)
- 60-255 Van Dilla, Marvin A. and Anderson, Ernest C.  
PERSONNEL MONITORING WITH LARGE LIQUID SCINTILLATION  
COUNTERS.  
Armed Forces Med. J. 11, 526-34 (1960). (LADC-3703)
- 60-256 Van Dilla, Marvin A., Arnold, James R., and Anderson, Ernest  
C.  
SPECTROMETRIC MEASUREMENT OF NATURAL AND COSMIC-RAY INDUCED  
RADIOACTIVITY IN METEORITES.  
Geochim. Cosmochim. Acta 20, 115-21 (1960). (LADC-3963)
- 60-257 Van Dilla, Marvin A.  
ZINC-65 AND ZIRCONIUM-95 IN FOOD.  
Science 131, 659-60 (1960). (LADC-4042)

- 60-258 Van Dilla, Marvin A. and Engelke, Morris J.  
ZINC-65 IN CYCLOTRON WORKERS.  
Science 131, 830-2 (1960). (LADC-4066)
- 60-259 Visscher, William M.  
STUDY OF LATTICE VIBRATIONS BY RESONANCE ABSORPTION OF  
NUCLEAR GAMMA RAYS.  
Ann. Phys. 9, 194-210 (1960). (LADC-3816)
- 60-260 Voorhees, Edward A.  
SOME THOUGHTS ON RECONCILING VARIOUS CHARACTER SET PROPOSALS.  
Comm. Assoc. Comput. Mach. 3, 408-9 (1960). (LADC-4412)
- 60-261 Waber, James T.  
SOME PRINCIPLES OF THE ALLOYING BEHAVIOR OF PLUTONIUM.  
Extractive and Physical Metallurgy of Plutonium and Its  
Alloys, Wilkinson, W. D. (ed) (Interscience, New York),  
p. 111-47 (1960). (LADC-3702)
- 60-262 Wageman, William E. and Guevara, Francisco A.  
FLUID FLOW THROUGH A POROUS CHANNEL.  
Phys. Fluids 3, 878-81 (1960). Also: Bull. Am. Phys. Soc.  
2, 5, 250 (1960). (LADC-4173)
- 60-263 Waterbury, Glenn R. and Metz, Charles F.  
SPECTROPHOTOMETRIC DETERMINATION OF ALLOYING AND FISSION  
PRODUCT ELEMENTS IN NONIRRADIATED PLUTONIUM 'FISSION'  
ALLOYS.  
Talanta 6, 237-45 (1960). (LADC-3903)
- 60-264 Watts, Richard John.  
METHOD OF MAKING FRISCH GRIDS.  
Rev. Sci. Instr. 31, 213 (1960). (LADC-4035)
- 60-265 Wegner, Harvey E. and Hall, W. Stanley.  
STUDY OF ( $\text{He}^3, d$ ) AND ( $\text{He}^3, t$ ) REACTIONS IN LIGHT NUCLEI AT  
25 MEV.  
Phys. Rev. 119, 1654-65 (1960). (LADC-4324)

- 60-266 Wendroff, Burton.  
ON CENTERED DIFFERENCE EQUATIONS FOR HYPERBOLIC SYSTEMS.  
J. Soc. Ind. Appl. Math. 8, 549-55 (1960). (LADC-3385)
- 60-267 Wendroff, Burton.  
ON THE CONVERGENCE OF THE DISCRETE ORDINATE METHOD.  
J. Soc. Ind. Appl. Math. 8, 508-13 (1960). (LADC-4527)
- 60-268 Westervelt, Donald R., Bennett, Elbert W., and Skumanich, Andrew.  
AIR FLUORESCENCE EXCITED BY GAMMA RAYS AND X-RAYS.  
Proc. Intern. Conf. Ionization Phenomena Gases, 4th, Uppsala, August 17-21, 1959. 1, 225-29 (1960). (LADC-3864)
- 60-269 Wimett, Thomas F., White, Roger H., Stratton, William R., and Wood, David P.  
GODIVA II 6 AN UNMODERATED PULSE-IRRADIATION REACTOR.  
Nucl. Sci. Eng. 8, 691-708 (1960). (LADC-4501)
- 60-270 Witteman, Willard G., Giorgi, Angelo L., and Vier, Dwayne T.  
PREPARATION AND IDENTIFICATION OF SOME INTERMETALLIC COMPOUNDS OF POLONIUM.  
J. Phys. Chem. 64, 434-40 (1960). (LADC-3980)
- 60-271 Wood, David P., Byers, Cleo C., and Osborn, Lewis C.  
CRITICAL MASS OF CYLINDERS OF PLUTONIUM DILUTED WITH OTHER METALS.  
Nucl. Sci. Eng. 8, 578-87 (1960). (LADC-4365)
- 60-272 Wood, William Wayne and Salsburg, Zevi W.  
ANALYSIS OF STEADY-STATE SUPPORTED ONE-DIMENSIONAL DETONATIONS AND SHOCKS.  
Phys. Fluids 3, 549-66 (1960). (LADC-4205)
- 60-273 Wyatt, Philip J., Wills, John G., and Green, Alex E. S.  
NONLOCAL OPTICAL MODEL FOR NUCLEON-NUCLEAR INTERACTIONS.  
Phys. Rev. 119, 1031-42 (1960). (LADC-NN-70)

- 60-274 Yasuda, Stanley K. and Rogers, Raymond N.  
MICRODETERMINATION OF BORON IN ORGANIC BORON COMPOUNDS.  
Microchem. J. 4, 155-61 (1960). (LADC-3746)
- 60-275 Yasuda, Stanley K. and Rogers, Raymond N.  
SEPARATION AND MICRODETERMINATION OF HEXAHYDRO-1,3,5-  
TRINITRO-S-TRIAZINE IN OCTAHYDRO-1,3,5,7-TETRANITRO-S-  
TETRAZINE.  
Anal. Chem. 32, 910-1 (1960). (LADC-3985)
- 60-276 Young, James E. and Visscher, William M.  
REACTIONS INVOLVING SYSTEMS CONTAINING FOUR NUCLEONS.  
Nuclear Forces and the Few-Nucleon Problem, Griffith, T. C.  
and Power E. A. (eds) (Pergamon Press, New York),  
p. 553-4 (1960). (LADC-3860)
- 60-277 Zinn, John and Mader, Charles L.  
THERMAL INITIATION OF EXPLOSIVES.  
J. Appl. Phys. 31, 323-8 (1960). (LADC-3918)
- 60-278 Zukas, Eugene G.  
TRANSFORMATION KINETICS AND MECHANICAL PROPERTIES OF  
URANIUM-0.5 w/o COLUMBIUM-0.5 w/o MOLYBDENUM ALLOY.  
Trans. Am. Soc. Metals 52, 797-811 (1960). (LADC-2552)

- 60-1A Ajzenberg-Selove, Fay, Cranberg, Lawrence, and Dietrich, Frank S.  
ENERGY LEVELS OF Na<sup>21</sup> AND Mg<sup>22</sup>.  
Bull. Am. Phys. Soc. 2, 5, 493 (1960). (LADC-4575)
- 60-2A Baker, Don A. and Hammel, Jay E.  
"FREE WHEELIN" OPERATION OF A ROTATING PLASMA.  
Bull. Am. Phys. Soc. 2, 5, 314 (1960). (LADC-4052)
- 60-3A Baker, Don A. and Hammel, Jay E.  
VOLTAGE LIMITING IN ROTATING PLASMA DEVICES.  
Bull. Am. Phys. Soc. 2, 5, 341 (1960). (LADC-4266)
- 60-4A Balcomb, J. Douglas, Gyftopoulos, Elias P., and Demuth, Howard B.  
USE OF STOCHASTIC INPUTS TO MEASURE THE DYNAMIC RESPONSE OF REACTOR SYSTEMS.  
Trans. Am. Nucl. Soc. 3, 2, 476 (1960). (LADC-4649)
- 60-5A Withdrawn
- 60-6A Bame, Samuel J., Davis, Roland W., Glore, J. Paul, and Brumley, Farrell B.  
INTENSITY OF NEUTRON ALBEDO ABOVE THE ATMOSPHERE.  
Bull. Am. Phys. Soc. 2, 5, 360-1 (1960). (LADC-4253)
- 60-7A Barfield, W. D., Motz, Henry T., and Carter, Robert E.  
GAMMA RADIATION FROM Be<sup>9</sup>(n,  $\gamma$ )Be<sup>10</sup>.  
Bull. Am. Phys. Soc. 2, 5, 44-5 (1960). (LADC-4083)
- 60-8A Boone, Irene U.  
CHRONIC EFFECTS OF SUBLETHAL WHOLE BODY X IRRADIATION OF CF<sub>1</sub> MICE AT DIFFERENT AGE LEVELS.  
Radiation Res. 12, 424 (1960). (LADC-4188)



- 60-9A Bunker, Merle E. and Starner, John W.  
ANGULAR CORRELATION MEASUREMENTS ON  $\gamma$  -  $\gamma$  CASCADES IN  $\text{Pd}^{104}$ ,  
 $\text{Pd}^{108}$ , AND  $\text{Zn}^{66}$ .  
Bull. Am. Phys. Soc. 2, 5, 253-4 (1960). (LADC-4187)
- 60-10A Burkhardt, Louis C. and Lovberg, Ralph H.  
CURRENT DISTRIBUTION AND STABILITY MEASUREMENTS ON A  
COAXIAL PLASMA GUN.  
Bull. Am. Phys. Soc. 2, 5, 350 (1960). (LADC-4262)
- 60-11A Carter, Robert E. and Motz, Henry T.  
GAMMA RADIATION FROM  $\text{N}^{14}(\text{n}, \gamma)\text{N}^{15}$ .  
Bull. Am. Phys. Soc. 2, 5, 246 (1960). (LADC-4190)
- 60-12A Christenson, Conard W. and Fowler, Eric B.  
DEPTH OF PLANT ROOTS AS RELATED TO UPTAKE OF RADIONUCLIDES.  
Am. Chem. Soc. Abstracts of Papers 137, 7-8A (1960).  
(LADC-4111)
- 60-13A Coleman, James S.  
KINETICS OF THE DISPROPORTIONATION OF AMERICIUM(V).  
Am. Chem. Soc. Abstracts of Papers 138, 27N (1960).  
(LADC-3670)
- 60-14A Cranberg, Lawrence and Glendenning, Norman K.  
DIRECT-INTERACTION CONTRIBUTION TO 3-MEV NEUTRON INELASTIC  
SCATTERING FROM Fe AND Pb.  
Proc. Intern. Conf. Nucl. Struct., Kingston, Ontario,  
p. 357-59 (1960). Also: Proc. Intern. Conf. Nucl.  
Struct., Kingston, Ontario, p. 936 (1960).  
(LADC-NN-10 and LADC-NN-11)
- 60-15A Cranston, Frederick P., Jr., Bunker, Merle E. and Starner,  
John W.  
UNEXPECTED  $3/2$ - INTRINSIC STATE IN  $\text{Ho}^{165}$ .  
Bull. Am. Phys. Soc. 2, 5, 255 (1960). (LADC-4016)

- 60-16A Cromer, Don T. and Larson, Allen C.  
CRYSTAL STRUCTURE OF  $\text{KCu}_2(\text{CN})_3 \cdot \text{H}_2\text{O}$ .  
Am. Chem. Soc. Abstracts of Papers 138, 7N (1960).  
(LADC-4215)
- 60-17A Dietrich, Frank S. and Granberg, Lawrence.  
LEVEL STRUCTURE OF  $\text{Be}^8$  FROM  $\text{Li}^7(d,n)\text{Be}^8$ .  
Bull. Am. Phys. Soc. 2, 2, 493 (1960). (LADC-4582)
- 60-18A Dreicer, Harry.  
RADIATION FROM A TEST OSCILLATOR IN A PLASMA.  
Bull. Am. Phys. Soc. 2, 2, 124 (1960). (LADC-4025)
- 60-19A Ellis, Walton P.  
THIN FILM FORMATION OF  $\text{UF}_4(s)$  ON  $\text{UO}_2(s)$ .  
Am. Chem. Soc. Abstracts of Papers 138, 67S (1960).  
(LADC-4360)
- 60-20A Fitzgibbon, Francis J., Schulte, John W., and Shaffer, David S.  
USE OF SOLVENT-SOLUBLE FILMS IN DECONTAMINATION.  
Trans. Am. Nucl. Soc. 3, 2, 524-5 (1960). (LADC-4359)
- 60-21A Hagerman, Donald C. and Osher, John E.  
INJECTION AND CONTAINMENT EXPERIMENTS IN A PICKET FENCE  
GEOMETRY.  
Bull. Am. Phys. Soc. 2, 2, 350 (1960). (LADC-4261)
- 60-22A Hagerman, Donald C. and Mize, Jack P.  
MAGNETIC FIELD DISTRIBUTION AND OPTICAL MEASUREMENTS IN  
PERHAPSATRON S-5.  
Bull. Am. Phys. Soc. 2, 2, 322 (1960). (LADC-4058)
- 60-23A Hopkins, John C. and Diven, Ben C.  
CAPTURE-TO-FISSION RATIOS FOR FAST NEUTRONS IN  $\text{U}^{233}$ ,  $\text{U}^{235}$ ,  
 $\text{Pu}^{239}$ .  
Bull. Am. Phys. Soc. 2, 2, 494 (1960). (LADC-4583)

- 60-24A Jahoda, Franz C., Sawyer, George A., and Stratton, Thomas F.  
PHOTOELECTRIC SPECTROSCOPY OF A MAGNETICALLY COMPRESSED  
PLASMA.  
Bull. Am. Phys. Soc. 2, 5, 308 (1960). (LADC-4053)
- 60-25A Karr, Hugh J., Osher, John E., and Knapp, Edward A.  
ENERGY DISTRIBUTION IN THE RADIATION SPECTRUM FROM A  
TOROIDAL PINCH DISCHARGE.  
Bull. Am. Phys. Soc. 2, 5, 324 (1960). (LADC-4060)
- 60-26A Knapp, Edward A., Karr, Hugh J., Osher, John E., and Stovall,  
Emory J.  
MECHANISM FOR IMPURITY RADIATION GROWTH IN A PINCH DISCHARGE.  
Bull. Am. Phys. Soc. 2, 5, 324 (1960). (LADC-4062)
- 60-27A Koenig, Seymour H. and Yarnell, John L.  
LATTICE VIBRATION SPECTRUM OF BISMUTH.  
Bull. Am. Phys. Soc. 2, 5, 198-9 (1960). (LADC-4154)
- 60-28A Langham, Wright H.  
BIOSPHERIC RADIOACTIVE CONTAMINATION FROM NUCLEAR WEAPONS  
TESTS.  
Am. Chem. Soc. Abstracts of Papers 137, 6-7A (1960).  
(LADC-4309)
- 60-29A Lee, Clarence E.  
DSN AND TDC DISCRETE  $S_n$  MULTIGROUP NEUTRON TRANSPORT  
THEORY CODES.  
Trans. Am. Nucl. Soc. 3, 2, 371-2 (1960). (LADC-4504)
- 60-30A Leitnaker, James M., Gilles, Paul W., and Bowman, Melvin G.  
EVAPORATION BEHAVIOR AND VAPOR PRESSURE OF ZIRCONIUM  
DIBORIDE.  
Am. Chem. Soc. Abstracts of Papers 138, 53S (1960).  
(LADC-4368)
- 60-31A Little, Edward M. and Quinn, Warren E.  
HARD X-RAY EMISSION FROM SCYLLA.  
Bull. Am. Phys. Soc. 2, 5, 341 (1960). (LADC-4267)

- 60-32A McQueen, Robert G. and Marsh, Stanley P.  
 ULTIMATE YIELD STRENGTH OF COPPER.  
 Bull. Am. Phys. Soc. 2, 2, 506 (1960). (LADC-4584)
- 60-33A Marsh, Stanley P. and McQueen, Robert G.  
 INVESTIGATION OF THE HUGONIOT ELASTIC LIMIT IN ARMCO IRON  
 BY OPTICAL REFLECTION MEASUREMENTS.  
 Bull. Am. Phys. Soc. 2, 2, 506 (1960). (LADC-4460)
- 60-34A Marshall, John.  
 HYDROMAGNETIC PLASMA GUNS.  
 Bull. Am. Phys. Soc. 2, 2, 318 (1960). (LADC-4064)
- 60-35A Masters, Burton J., Perkins, Harolyn King, and Schwartz,  
 Larry Lee.  
 ISOTOPIC EXCHANGE STUDIES OF THE U(IV)-U(V)-U(VI) SYSTEM  
 IN AQUEOUS PERCHLORATE SOLUTION.  
 Am. Chem. Soc. Abstracts of Papers 138, 26N (1960).  
 (LADC-4372)
- 60-36A Mather, Joseph W. and Williams, Arthur H.  
 EXPERIMENTS ON PLASMA COMPRESSION IN A RISING AXIAL MAGNETIC  
 FIELD (ORTHOGONAL PINCH).  
 Bull. Am. Phys. Soc. 2, 2, 340-1 (1960). (LADC-4264)
- 60-37A Mather, Joseph W. and Williams, Arthur H.  
 PLASMA COMPRESSION BY RISING AXIAL MAGNETIC FIELDS  
 (ORTHOGONAL PINCH).  
 Bull. Am. Phys. Soc. 2, 2, 309 (1960). (LADC-4056)
- 60-38A Mize, Jack P., Hagerman, Donald C., and Lier, Douglas W.  
 DIAGNOSTIC MEASUREMENTS ON THE PERHAPSATRON S-5.  
 Bull. Am. Phys. Soc. 2, 2, 322-3 (1960). (LADC-4095)
- 60-39A Mohler, Ronald R. and Wheatley, Eugene A., Jr.  
 MATHEMATICAL MODEL TO REPRESENT THE BASIC DYNAMICS OF A  
 NUCLEAR ROCKET SYSTEM.  
 Trans. Am. Nucl. Soc. 3, 2, 386 (1960). (LADC-4488)

- 60-40A Motz, Henry T. and Carter, Robert E.  
THERMAL NEUTRON CAPTURE GAMMA RAYS FROM BERYLLIUM AND  
NITROGEN.  
Symposium on Pile Neutron Research in Physics, Vienna,  
October 17-21, 1960. Abstracts of Papers, PNR/38. 2 p.  
(1960). (LADC-4493)
- 60-41A Mullins, Lawrence J., Leary, Joseph A., and Bjorklund, Carl W.  
PREPARATION OF PLUTONIUM METAL BY FUSED SALT ELECTROREFINING.  
Am. Chem. Soc. Abstracts of Papers 138, 36M (1960).  
(LADC-4394)
- 60-42A Newton, Thomas W. and Baker, Floyd B.  
REACTION BETWEEN URANIUM(VI) AND CHROMIUM(II).  
Am. Chem. Soc. Abstracts of Papers 138, 25N (1960).  
(LADC-4370)
- 60-43A Onstott, Edward I.  
HIGH PURITY YTTERBIUM FROM MIXTURES OF HEAVY LANTHANONS BY  
AQUEOUS ELECTROLYSIS.  
Am. Chem. Soc. Abstracts of Papers 138, 31N (1960).  
(LADC-3845)
- 60-44A Onstott, Edward I.  
PURIFICATION OF LUTETIUM BY SELECTIVE ELECTROLYSIS OF THE  
LIGHTER LANTHANONS WITH METHANOL ELECTROLYTES.  
Am. Chem. Soc. Abstracts of Papers 138, 31-2N (1960).  
(LADC-4369)
- 60-45A Osher, John E., Knapp, Edward A., and Karr, Hugh J.  
ENERGY LOSS MEASUREMENTS IN THE FAR VACUUM ULTRA-VIOLET FROM  
A TOROIDAL PINCH DISCHARGE.  
Bull. Am. Phys. Soc. 2, 5, 323-4 (1960). (LADC-4061)
- 60-46A Osher, John E. and Hagerman, Donald C.  
HIGH-SPEED HYDROMAGNETIC GUN.  
Bull. Am. Phys. Soc. 2, 5, 350 (1960). (LADC-4263)

- 60-47A Peterson, Peter J. and Green, Jere L.  
OPERATION OF A PLUTONIUM HOT CELL.  
Trans. Am. Nucl. Soc. 3, 2, 522-3 (1960). (LADC-4541)
- 60-48A Quinn, Warren E., Little, Edward M., and Ribe, Fred L.  
RADIO-FREQUENCY PREIONIZATION OF SCYLLA.  
Bull. Am. Phys. Soc. 2, 5, 341 (1960). (LADC-4268)
- 60-49A Ribe, Fred L.  
RECENT EXPERIMENTAL PROGRESS.  
Trans. Am. Nucl. Soc. 3, 1, 96-8 (1960). (LADC-4284)
- 60-50A Rotenberg, Aubrey, Lust, Reimar, Richtmyer, Robert D., Levy, Dorothy, and Suydam, Bergen R.  
STABILITY OF A PLASMA TORUS. II. CALCULATIONS AND RESULTS.  
Bull. Am. Phys. Soc. 2, 5, 307 (1960). (LADC-4049)
- 60-51A Sayeg, Joseph A., Ballinger, Edwin R., and Harris, Payne S.  
GODIVA II CRITICAL ASSEMBLY AS AN IRRADIATION ASSEMBLY FOR BIOLOGICAL RESEARCH.  
Radiation Res. 12, 469 (1960). (LADC-4189)
- 60-52A Silbert, Myron G. and Jarmie, Nelson.  
ENERGY LEVELS OF  $F^{21}$ ,  $Ne^{24}$ .  
Proc. Intern. Conf. Nucl. Struct., Kingston, Ontario.  
p. 967 (1960). (LADC-4432)
- 60-53A Stratton, Thomas F., Jahoda, Franz C., and Sawyer, George A.  
SOFT X RADIATION FROM A MAGNETICALLY COMPRESSED PLASMA.  
Bull. Am. Phys. Soc. 2, 5, 308 (1960). (LADC-4054)
- 60-54A Stratton, William R.  
REVIEW OF CRITICALITY ACCIDENTS.  
Trans. Am. Nucl. Soc. 3, 1, 290-1 (1960). (LADC-3958)
- 60-55A Suydam, Bergen R., Lust, Reimar, Richtmyer, Robert D., and Rotenberg, Aubrey.  
STABILITY OF A PLASMA TORUS. I. MATHEMATICAL FORMULATION.  
Bull. Am. Phys. Soc. 2, 5, 307 (1960). (LADC-NN-97)

- 60-56A Tinkle, Marvin C., McCreary, William J., Travis, Billy D.,  
Bard, Richard J., and Kircher, John A.  
PREPARATION OF MINUS 10 MICRON HIGH DENSITIES  $UO_2$ .  
Am. Chem. Soc. Abstracts of Papers 138, 31-2M (1960).  
(LADC-4349)
- 60-57A Wackerle, Jerry.  
SHOCK-WAVE COMPRESSION OF QUARTZ.  
Bull. Am. Phys. Soc. 2, 5, 510-1 (1960). (LADC-4579)
- 60-58A Wegner, Harvey E. and Hall, W. Stanley.  
MASS AND ENERGY LEVELS OF  $Sc^{41}$  BY  $Ca^{40}(He^3,d)Sc^{41}$  AND  
 $Ca^{40}(d,n)Sc^{41}$  REACTION SCATTERING.  
Bull. Am. Phys. Soc. 2, 5, 248 (1960). (LADC-4172)
- 60-59A Whetstone, Stanley L., Jr.  
PROMPT NEUTRON EMISSION AND KINETICS OF SPONTANEOUS FISSION.  
Bull. Am. Phys. Soc. 2, 5, 347 (1960). (LADC-4285)
- 60-60A Williams, Arthur H. and Mather, Joseph W.  
FAST HIGH-CURRENT HIGH-VOLTAGE VACUUM SWITCH.  
Bull. Am. Phys. Soc. 2, 5, 319 (1960). (LADC-4057)
- 60-61A Wyatt, Philip J., Wills, John G., and Green, Alex E.  
COMPLEX NON-LOCAL DIFFUSE BOUNDARY INDEPENDENT PARTICLE MODEL  
OF NUCLEON-NUCLEI SCATTERING AND BOUND STATE PHENOMENA.  
Bull. Am. Phys. Soc. 2, 5, 243 (1960). (LADC-NN-71)
- 60-62A Young, James E.  
 $T(p,n)He^3$  REACTION, II.  
Bull. Am. Phys. Soc. 2, 5, 44 (1960). (LADC-4070)
- 60-63A Young, James E. and Stein, Paul R.  
THEORY OF REACTIONS INVOLVING LIGHT NUCLEI.  
Bull. Am. Phys. Soc. 2, 5, 378 (1960). (LADC-4214)

- 61-1 Ajzenberg-Selove, Fay, Cranberg, Lawrence, and Dietrich, Frank Sigel, III.  
ENERGY LEVELS OF Na<sup>21</sup> AND Mg<sup>22</sup>.  
Phys. Rev. 124, 1548-57 (1961) (LADC-4575)
- 61-2 Anderson, Ernest C. and Langham, Wright H.  
ESTIMATION OF TOTAL BODY FAT FROM POTASSIUM-40 CONTENT.  
Science 133, 1917 (1961). (LADC-4716)
- 61-3 Anderson, Ernest C., Schuch, Robert L., Kerr, Vernon N., and Van Dilla, Marvin A.  
HUMCO II: A NEW FOUR PI LIQUID SCINTILLATION COUNTER.  
Radioactivity in Man, Meneely, George R. (ed) (Thomas Publishing House, Springfield, Illinois), p. 31-41 (1961).  
(LADC-4219)
- 61-4 Anderson, John W., McNeese, Wilbur D., Burwell, Calvin C., and Leary, Joseph A.  
PREPARATION AND FABRICATION OF PLUTONIUM FUEL ALLOY FOR LOS ALAMOS MOLTEN PLUTONIUM REACTOR EXPERIMENT NO. 1.  
Nucl. Sci. Eng. 11, 434-40 (1961). (LADC-4468)
- 61-5 Armstrong, Alice H., Harrison, Francis B., Heckman, Harry Hughes, and Rosen, Louis.  
CHARGED PARTICLES IN THE INNER VAN ALLEN RADIATION BELT.  
J. Geophys. Res. 66, 351-7 (1961). (LADC-4597)
- 61-6 Arnold, George and Nereson, Norris.  
NEUTRON COHERENT SCATTERING AMPLITUDES FOR Cd AND Eu.  
Phys. Rev. 124, 1848-51 (1961). (LADC-5002)



- 61-7 Asprey, Larned B. and Penneman, Robert A.  
FIRST OBSERVATION OF AQUEOUS TETRAVALENT AMERICIUM.  
J. Am. Chem. Soc. 83, 2200 (1961). (LADC-4776)
- 61-8 Asprey, Larned B., Margrave, John L. and Silverthorn, Merlin E.  
TETRAFLUOROHALATES OF CESIUM, RUBIDIUM AND POTASSIUM.  
J. Am. Chem. Soc. 83, 2955 (1961). (LADC-4893)
- 61-9 Asprey, Larned B. and Keenan, Thomas K.  
TETRAVALENT LANTHANIDES - I SODIUM PRASEODYMIUM(IV)  
FLUORIDES.  
J. Inorg. & Nucl. Chem. 16, 260-2 (1961). (LADC-4202)
- 61-10 Asprey, Larned B.  
TETRAVALENT NEODYMIUM AND DYSPROSIUM.  
Rare Earth Research, Kleber, Eugene V. (ed) (Macmillan,  
New York), p. 58-65 (1961). (LADC-4485)
- 61-11 Baker, Don A., Hammel, Jay E., and Ribe, Fred L.  
ROTATING PLASMA EXPERIMENTS. I. HYDROMAGNETIC PROPERTIES.  
Baker, Don A. and Hammel, Jay E.  
ROTATING PLASMA EXPERIMENTS. II. ENERGY MEASUREMENTS AND THE  
VELOCITY LIMITING EFFECT.  
Phys. Fluids 4, 1534-58 (1961). (LADC-5004 and LADC-5005)
- 61-12 Baker, Floyd B. and Newton, Thomas W.  
REACTION BETWEEN URANIUM(IV) AND HYDROGEN PEROXIDE.  
J. Phys. Chem. 65, 1897-99 (1961). (LADC-4779)
- 61-13 Baker, George A., Jr.  
APPLICATION OF THE PADE APPROXIMANT METHOD TO THE INVESTI-  
GATION OF SOME MAGNETIC PROPERTIES OF THE ISING MODEL.  
Phys. Rev. 124, 768-74 (1961). (LADC-4926)
- 61-14 Baker, George A., Jr., Gammel, John L., and Wills, John G.  
INVESTIGATION OF THE APPLICABILITY OF THE PADE APPROXIMANT  
METHOD.  
J. Math. Analysis Appl. 2, 405-18 (1961). (LADC-4392)

- 61-15 Baker, George A., Jr.  
ONE-DIMENSIONAL ORDER-DISORDER MODEL WHICH APPROACHES A  
SECOND-ORDER PHASE TRANSITION.  
Phys. Rev. 122, 1477-84 (1961). (LADC-4705)
- 61-16 Baker, George A., Jr., and Gammel, John L.  
PADE APPROXIMANT.  
J. Math. Analysis Appl. 2, 21-30 (1961). (LADC-4236)
- 61-17 Balcomb, J. Douglas, Demuth, Howard B., and Gyftopoulos,  
Elias P.  
CROSSCORRELATION METHOD FOR MEASURING THE IMPULSE RESPONSE  
OF REACTOR SYSTEMS.  
Nucl. Sci. Eng. 11, 159-66 (1961). (LADC-4787)
- 61-18 Bard, Richard J., Bertino, James P., and Bunker, Don L.  
ACTIVATING URANIUM DIOXIDE.  
Ind. Eng. Chem. 53, 1003-06 (1961). (LADC-4429)
- 61-19 Barr, Donald W., Browne, Charles I., and Gilmore, James S.  
INTERPRETATION OF EXPERIMENTAL (n,2n) EXCITATION FUNCTIONS.  
Phys. Rev. 123, 859-64 (1961). (LADC-4758)
- 61-20 Batista, Roy I., Hanks, Gale S., Taub, James M., and Murphy,  
Daniel J.  
EVALUATION OF DRAWING LUBRICANTS FOR TANTALUM AND URANIUM.  
Lubrication Eng. 17, 414-8 (1961). (LADC-4535)
- 61-21 Bearden, Alan J., Ribe, Fred L., Sawyer, George A., and  
Stratton, Thomas F.  
X-RAY CONTINUA AND LINE SPECTRA FROM HIGHLY STRIPPED ATOMS  
IN A MAGNETICALLY COMPRESSED PLASMA.  
Phys. Rev. Letters 6, 257-60 (1961). (LADC-4724)
- 61-22 Bell, George I.  
EFFECT OF INTERFERENCE BETWEEN RESONANCE AND POTENTIAL  
SCATTERING ON RESONANCE ABSORPTION.  
Nucl. Sci. Eng. 2, 409-10 (1961). (LADC-4538)

- 61-23 Bendt, Philip J. and Oliphant, Thomas A.  
HYDRODYNAMICS OF HELIUM IN ANNULAR GEOMETRY.  
Phys. Rev. Letters 6, 213-5 (1961). (LADC-4697)
- 61-24 Bendt, Philip J.  
ON PERSISTENT CURRENTS IN SUPERFLUID HELIUM.  
Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Ontario,  
1960. 576-77 (1961). (LADC-4384)
- 61-25 Benz, Robert and Douglass, Robert M.  
PHASE EQUILIBRIA IN THE BINARY SYSTEMS  $\text{PuCl}_3\text{-RbCl}$  AND  
 $\text{PuCl}_3\text{-CsCl}$ .  
J. Phys. Chem. 65, 1461-63 (1961). (LADC-3967 and  
LADC-4681)
- 61-26 Benz, Robert and Douglass, Robert M.  
SOME OBSERVATIONS ON  $\text{Pu(IV)}$ -ALKALI DOUBLE CHLORIDES.  
J. Inorg. & Nucl. Chem. 23, 134-6 (1961). (LADC-4993)
- 61-27 Benz, Robert.  
SOME THERMODYNAMIC PROPERTIES OF THE SYSTEM  $\text{PuCl}_3\text{-KCl}$  FROM  
ELECTROMOTIVE FORCE DATA.  
J. Phys. Chem. 65, 81-4 (1961). (LADC-3814)
- 61-28 Benz, Robert and Leary, Joseph A.  
SOME THERMODYNAMIC PROPERTIES OF THE SYSTEM PLUTONIUM  
CHLORIDE - SODIUM CHLORIDE FROM ELECTRO-MOTIVE FORCE DATA.  
J. Phys. Chem. 65, 1056-57 (1961). (LADC-4625)
- 61-29 Benziger, Theodore M. and Rohwer, Robert K.  
GRAPHITE-MATRIX FUEL BODIES.  
Nucleonics 19, 5, 80-5 (1961). (LADC-4612)
- 61-30 Birkeland, Stephen P., Daub, Guido H., Hayes, Francis Newton,  
and Ott, Donald G.  
LIQUID SCINTILLATORS. IX. SYNTHESIS OF SOME ARY SUBSTITUTED  
PHENANTHRENES AND DIHYDROPHENANTHRENES, AND RELATED p-  
TERPHENYLS AND p-QUATERPHENYLS.  
J. Org. Chem. 26, 2662-67 (1961). (LADC-4596)

- 61-31 Blatz, Laurence A.  
 PRECISE DIFFERENCE METHOD FOR THE SPECTROPHOTOMETRIC DETERMINATION OF CERIUM(IV) AT MICROMOLAR CONCENTRATIONS.  
 Anal. Chem. 33, 249-52 (1961). (LADC-4329)
- 61-32 Bowman, Allen L.  
 VARIATION OF LATTICE PARAMETER WITH CARBON CONTENT OF TANTALUM CARBIDE.  
 J. Phys. Chem. 65, 1596-98 (1961). (LADC-4841)
- 61-33 Bowman, Melvin G.  
 CHEMISTRY OF FUEL ELEMENT CATHODE MATERIALS.  
 Progr. Astron. Rocketry 3, 201-9 (1961). (LADC-4391)
- 61-34 Bradford, Donald H. and Wells, Mark B.  
 MADCAP II.  
 Ann. Rev. Autom. Program. 2, 115-40 (1961). (LADC-NN-108)
- 61-35 Brasier, Robert I. and Dove, Richard C.  
 USE OF ELECTRICAL-RESISTANCE STRAIN ELEMENTS IN THREE-DIMENSIONAL STRESS ANALYSIS.  
 Proc. Exp. Stress Anal. 18, 1, 186-91 (1961). Also:  
 Exp. Mech. 1, 186-91 (1961). (LADC-PUB-165)
- 61-36 Brixner, Berlyn.  
 IMPROVED  $f/10$  SWEEPING-IMAGE CAMERA: A VERSATILE MODEL FOR EXPLOSIVE RESEARCH.  
 J. Soc. Motion Picture Television Engs. 70, 180-8 (1961). (LADC-4185)
- 61-37 Brolley, John E., Jr., Gammel, John L., and Rosen, Louis.  
 PRODUCTION OF SPIN POLARIZED MASS-THREE BEAMS.  
 Helv. Phys. Acta, Suppl. VI, 220-3 (1961). (LADC-4319)
- 61-38 Brolley, John E., Jr.  
 RECOIL TECHNIQUES FOR THE MEASUREMENT OF NEUTRON FLUX, ENERGY, LINEAR AND SPIN ANGULAR MOMENTUM.  
 Methods Exp. Phys. 5A, 461-94 (1961). (LADC-4530)

- 61-39 Brownlee, Robert R. and Cox, Arthur N.  
EARLY SOLAR EVOLUTION.  
Sky & Telescope 21, 252-6 (1961). (LADC-4688)
- 61-40 Bussard, Robert W., Finger, Harold B., Rom, Frank, and Merkle,  
Theodore C.  
NUCLEAR PROPULSION.  
Astronautics 6, 12, 44-5, 127-9 (1961). (LADC-5130)
- 61-41 Campbell, Arthur W., Davis, William C., and Travis, James  
Roland.  
SHOCK INITIATION OF DETONATION IN LIQUID EXPLOSIVES.  
Phys. Fluids 4, 498-510 (1961). (LADC-4306)
- 61-42 Campbell, Arthur W., Davis, William C., Ramsay, John Barada,  
and Travis, James Roland.  
SHOCK INITIATION OF SOLID EXPLOSIVES.  
Phys. Fluids 4, 511-21 (1961). Also: ONR Symp. Detonation,  
3rd, James Forrestal Res. Center, Princeton University,  
September 26-28, 1960. 2, 496-8 (1961). (LADC-4305 and  
LADC-4306)
- 61-43 Carlson, Bengt.  
NUMERICAL SOLUTION OF NEUTRON TRANSPORT PROBLEMS.  
Am. Math. Soc. Proc. 11, 219-32 (1961). (LADC-4084)
- 61-44 Chezem, Curtis G. and Moore, Richard H.  
AUTORADIOGRAPHIC POWER DISTRIBUTION MEASUREMENTS IN NUCLEAR  
REACTORS AND ANALYSIS BY DIGITAL COMPUTER METHODS.  
Phot. Sci. Eng. 5, 343-8 (1961). (LADC-5037)
- 61-45 Christenson, Conard W. and Fowler, Eric B.  
DEPTH OF FEEDING AS IT AFFECTS THE CONCENTRATION OF  
RADIOACTIVITY WITHIN THE PLANT.  
Agr. Food Chem. 9, 2, 98-100 (1961). (LADC-4250)

- 61-46 Clifton, David G.  
CALCULATIONS OF THE COEFFICIENT OF VISCOSITY AND THE COEFFICIENTS OF DIFFUSION FOR DISSOCIATING HYDROGEN.  
J. Chem. Phys. 35, 1417-20 (1961). (LADC-4761)
- 61-47 Coffinberry, Arthur S.  
LATER PLUTONIUM METALLURGICAL RESEARCH AT LOS ALAMOS.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William N. (eds) (Univ. of Chicago Press, Chicago, Illinois), p. 36-62 (1961). (LADC-3119)
- 61-48 Cooper, Ralph S.  
APPLICATIONS FOR LOW-POWER NUCLEAR ROCKETS.  
Astronautics 6, 34-6, 66 & 68 (1961). (LADC-4712)
- 61-49 Cooper, Ralph S.  
NEW ROUTE TO CATHAY - STEP BY STEP.  
Missiles Rockets 8, 37 (1961). (LADC-NN-57)
- 61-50 Cowan, George A.  
SCIENTIFIC APPLICATIONS OF NUCLEAR EXPLOSIONS.  
Science 133, 1739-44 (1961). (LADC-4710)
- 61-51 Cowan, George A., Turkevich, Anthony, Browne, Charles I., Balagna, John P., Barnes, John W., Bayhurst, Barbara P., Prestwood, Rene J., Bryant, Ernest A., Dropesky, Bruce J., Knobeloch, Gordon W., Lang, Ernest J., Moore, Philip F., Orth, Charles J., and Barr, Donald W.  
SYMMETRY OF NEUTRON-INDUCED U<sup>235</sup> FISSION AT INDIVIDUAL RESONANCES.  
Phys. Rev. 122, 1286-94 (1961). (LADC-4630)
- 61-52 Cowan, Robert D.  
PROPOSED METHOD OF MEASURING THERMAL DIFFUSIVITY AT HIGH TEMPERATURES.  
J. Appl. Phys. 32, 1363-70 (1961). (LADC-4608)

- 61-53 Craig, Paul P.  
DIRECT OBSERVATIONS ON TURBULENCE IN He II.  
Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Ontario,  
1960. 579 (1961). (LADC-PUB-270)
- 61-54 Craig, Paul P.  
DRAG FORCES IN ROTATING He II.  
Phys. Rev. Letters 7, 331-4 (1961). (LADC-5062)
- 61-55 Craig, Paul P., Taylor, R. Dean, and Nagle, Darragh E.  
MOSSBAUER EFFECT MEASUREMENTS ON SUPERCONDUCTING INDIUM.  
Nuovo Cimento, 10, 22, 402-5 (1961). (LADC-4997)
- 61-56 Cramer, Eugene M., Hawes, Loren L., Miner, William N., and  
Schonfeld, Fred W.  
DILATOMETRY AND THERMAL ANALYSIS OF PLUTONIUM METAL.  
Metal Plutonium, Coffinberry, Arthur S. and Miner,  
William N. (eds) (Univ. of Chicago Press, Chicago, Illinois)  
p. 112-22 (1961). (LADC-3100)
- 61-57 Cranberg, Lawrence.  
APPLICATIONS OF MILLIMICROSECOND SPECTROSCOPY TO NEUTRON  
POLARIZATION STUDIES - METHOD AND RESULTS.  
Helv. Phys. Acta, Suppl. VI, 311-24 (1961).  
(LADC-PUB-263)
- 61-58 Cranberg, Lawrence, Fernald, Robert A., Hahn, Fred S., and  
Shrader, Erwin S.  
PRODUCTION OF HIGH INTENSITY ION PULSES OF NANOSECOND  
DURATION.  
Nucl. Instr. Methods 12, 335-40 (1961). (LADC-4651)
- 61-59 Cranberg, Lawrence.  
TIME-TO-PULSE-HEIGHT CONVERTER AS COINCIDENCE AND ANTI-  
COINCIDENCE INDICATOR.  
Nucl. Instr. Methods 10, 243-4 (1961). (LADC-4550)
- 61-60 Cromer, Don T. and Larson, Allen C.  
CRYSTAL STRUCTURE OF La<sub>2</sub>Co.  
Acta Cryst. 14, 1226-28 (1961). (LADC-4703)

- 61-61 Dash, Jay G., Taylor, R. Dean, Nagle, Darragh E., Craig, Paul P., and Visscher, William M.  
POLARIZATION OF Co<sup>57</sup> IN Fe METAL.  
Phys. Rev. 122, 1116-24 (1961). (LADC-4655)
- 61-62 Davis, William C. and Craig, Bobby G.  
SMEAR CAMERA TECHNIQUE FOR FREE-SURFACE VELOCITY TECHNIQUE.  
Rev. Sci. Instr. 32, 579-81 (1961). (LADC-4650)
- 61-63 Deal, William E.  
LOW PRESSURE POINTS ON THE ISENTROPES OF SEVERAL HIGH EXPLOSIVES.  
ONR Symp. Detonation, 3rd, James Forrestal Research Center, Princeton Univ., September 26-28, 1960, 2, 386-95 (1961).  
(LADC-4302)
- 61-64 Des Prez, Roger and Boone, Irene U.  
METABOLISM OF C<sup>14</sup>-ISONIAZID IN HUMANS.  
Am. Rev. Respirat. Diseases 84, 42-51 (1961).  
(LADC-4110)
- 61-65 Dienes, George Julian and Damask, Arthur C.  
ESTIMATE OF THE EFFECT OF RADIATION ON THE THERMAL CONDUCTIVITY OF BERYLLIUM.  
J. Nucl. Mater. 3, 16-20 (1961). (LADC-4340)
- 61-66 Dismukes, John P., Jones, Llewellyn H., and Ballar, John C., Jr.  
THE MEASUREMENT OF METAL-LIGAND BOND VIBRATIONS IN ACETYLACETONATE COMPLEXES.  
J. Phys. Chem. 65, 792-5 (1961). (LADC-NN-8)
- 61-67 Duff, Russell E. and Knight, Herbert T.  
ERRATUM: NOTES ON OSCILLOSCOPE PHOTOGRAPHY.  
Rev. Sci. Instr. 32, 1158 (1961). (LADC-4659)
- 61-68 Duff, R. E.  
EQUATION OF STATE AND THERMODYNAMIC FUNCTIONS.  
Fundamental Data Obtained from Shock-Tube Experiments,  
Ferri, E. (ed) (Pergamon, London), Chap. 8. AGARD MONOGRAPH 41. p. 29-319 (1961). (LADC-PUB-151)



- 61-69 Duff, Russell E.  
 INVESTIGATION OF SPINNING DETONATION AND DETONATION  
 STABILITY.  
 Phys. Fluids 4, 1427-33 (1961). (LADC-4929)
- 61-70 Duff, Russell E. and Knight, Herbert T.  
 NOTES ON OSCILLOSCOPE PHOTOGRAPHY.  
 Rev. Sci. Instr. 32, 741-3 (1961). (LADC-4659)
- 61-71 Duff, Russell E. and Young, James L., III.  
 SHOCK-WAVE CURVATURE AT LOW INITIAL PRESSURE.  
 Phys. Fluids 4, 812-5 (1961). Also: Bull. Am. Phys. Soc.  
2, 6, 215 (1961). (LADC-4559)
- 61-72 Durham, Franklin P. and Orndoff, John D.  
 NUCLEAR PROPULSION.  
Handbook of Astronautical Engineering, Koelle, Heinz  
 Hermann (ed) (McGraw-Hill, New York), Sect. 21, p. 2-31  
 (1961). (LADC-4225)
- 61-73 Ellinger, Finley H.  
 REVIEW OF THE INTERMETALLIC COMPOUNDS OF PLUTONIUM.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William  
 N. (eds) (Univ. of Chicago Press, Chicago, Illinois)  
 p. 281-308 (1961). (LADC-2055)
- 61-74 Elliott, Dana E. and Tenney, Gerold H.  
 RADIOGRAPHY AND AUTORADIOGRAPHY OF PLUTONIUM.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William  
 N. (eds) (Univ. of Chicago Press, Chicago, Illinois),  
 p. 210-24 (1961). (LADC-2963)
- 61-75 Elliott, Reed O. and Larson, Allen C.  
 DELTA-PRIME PLUTONIUM.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William  
 N. (eds) (Univ. of Chicago Press, Chicago, Illinois),  
 p. 265-80 (1961). (LADC-3767)

- 61-76 Elliott, Reed O., Gschneidner, Karl A., Jr., and Kempter, Charles P.  
THERMAL EXPANSION OF SOME DELTA PLUTONIUM SOLID SOLUTION ALLOYS.  
Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France, April 19-22, 1960. p. 142-55 (1961). (LADC-4212)
- 61-77 Erpenbeck, Jerome J.  
TWO-REACTION STEADY DETONATIONS.  
Phys. Fluids 4, 481-92 (1961). (LADC-4610)
- 61-78 Farr, John D., Giorgi, Angelo L., Bowman, Melvin G., and Money, Richard K.  
CRYSTAL STRUCTURE OF ACTINIUM METAL AND ACTINIUM HYDRIDE.  
J. Inorg. & Nucl. Chem. 18, 42-7 (1961). (LADC-4114)
- 61-79 Fitch, Val Logsdon, Piroué, Pierre Adrien, and Perkins, Roger B.  
MASS DIFFERENCE OF NEUTRAL K MESONS.  
Nuovo Cimento, 10, 22, 1160-70 (1961). (LADC-4927)
- 61-80 Foreman, Harry, Roberts, Mary B., and Lilly, Edith H.  
RADIOACTIVITY IN CERVIDAE ANTELERS.  
Z. Physik 164, 537-45 (1961). (LADC-4951)
- 61-81 Foreman, Harry.  
SUMMARY REMARKS BY THE CHAIRMAN.  
Federation Proc. 20, 3, Suppl. 10, 257-8 (1961).  
(LADC-4515)
- 61-82 Foreman, Harry.  
USE OF CHELATING AGENTS IN TREATMENT OF METAL POISONING (WITH SPECIAL EMPHASIS ON LEAD).  
Federation Proc. 20, 3, Suppl. 10, 191-6 (1961).  
(LADC-4515)

- 61-83 Fowler, Clarence M., Minshall, F. Stanley, and Zukas, Eugene G.  
METALLURGICAL METHOD FOR SIMPLIFYING THE DETERMINATION OF  
HUGONIOT CURVES FOR IRON ALLOYS IN THE TWO-WAVE REGION.  
Met. Soc. Conf. 2, 275-308 (1961). (LADC-4120)
- 61-84 Fowler, Eric B.  
SYMPOSIUM ON RADIOACTIVE FALLOUT IN RELATION TO FOODS  
INTRODUCTION.  
J. Agr. Food Chem. 2, 90 (1961). (LADC-4242)
- 61-85 Frauenfelder, Hans, Cochran, Donald R. F., Nagle, Darragh E.,  
and Taylor, R. Dean.  
INTERNAL CONVERSION FROM RESONANCE ABSORPTION.  
Nuovo Cimento, 10, 19, 183-5 (1961). (LADC-4585)
- 61-86 Gammel, John L., Hill, Benny J., and Thaler, Roy M.  
ELASTIC SCATTERING OF DEUTERONS BY He<sup>4</sup>.  
Helv. Phys. Acta. Suppl. IV, 409-22 (1961). (LADC-4175)
- 61-87 Gammel, John L. and Thaler, Roy M.  
POLARIZATION CONTOURS FOR T -  $\alpha$  AND He<sup>3</sup> -  $\alpha$  SCATTERING.  
Helv. Phys. Acta. Suppl. VI, 423-4 (1961). (LADC-NN-95)
- 61-88 Gammel, John L.  
STRIPPING THEORY IN OPERATOR FORM.  
Helv. Phys. Acta. Suppl. VI, 359-71 (1961). (LADC-4199)
- 61-89 Goldstein, Louis.  
ON THE DENSE PHASES OF He<sup>3</sup> AT VERY LOW TEMPERATURES.  
Ann. Phys. 14, 77-93 (1961). (LADC-4234)
- 61-90 Goldstein, Louis.  
ON THE THEORY OF SPIN PARAMAGNETISM.  
Ann. Phys. 15, 141-56 (1961). (LADC-4233)
- 61-91 Goldstein, Louis.  
ON THE THERMODYNAMIC PHASE DIAGRAMS OF HELIUM THREE.  
Ann. Phys. 16, 205-34 (1961). (LADC-4961)

- 61-92 Goldstein, Louis.  
THEORY OF SOLID  $\text{He}^4$ .  
Phys. Rev. 122, 726-38 (1961). (LADC-4428b)
- 61-93 Gore, James K. and Glass, James J.  
PRACTICAL APPLICATION OF STATISTICS TO THE QUALITY CONTROL  
OF ELECTROPLATED PRODUCTS.  
Am. Electroplaters' Soc. Tech. Proc. 48, 115-9 (1961).  
(LADC-4495)
- 61-94 Grilly, Edward R. and Hammel, Edward F.  
LIQUID AND SOLID  $^3\text{He}$ .  
Progr. Low Temp. Phys. 3, 113-52 (1961). (LADC-4427)
- 61-95 Grison, Emmanuel, Lord, William B. H., and Fowler, Robert D.  
(eds)  
Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France,  
April 19-22, 1960. (1961). (LADC-NN-33)
- 61-96 Gschneidner, Karl A., Jr.  
CRYSTALLOGRAPHY OF THE RARE EARTH METALS.  
Rare Earths, Spedding, F. H. and Daane, A. H. (eds)  
(John Wiley & Sons, New York), p. 190-214 (1961).  
(LADC-3885)
- 61-97 Gschneidner, Karl A., Jr., Elliott, Reed O., and McDonald,  
Robert R.  
EFFECTS OF ALLOYING ADDITIONS OF Sc, Y, RARE EARTHS, Th, AND  
Pu ON THE  $\gamma$  -  $\alpha$  TRANSFORMATION OF CERIUM.  
Rare Earth Research, Kleber, Eugene V. (ed) (Macmillan,  
New York), p. 278-87 (1961). (LADC-4473)
- 61-98 Gschneidner, Karl A., Jr., and Matthias, Bernd T.  
ELECTRICAL AND MAGNETIC PROPERTIES OF THE RARE EARTH METALS  
AND THEIR ALLOYS AND COMPOUNDS.  
Rare Earth Research, Kleber, Eugene V. (ed) (Macmillan,  
New York), p. 158-64 (1961). (LADC-4492)

- 61-99 Gschneidner, Karl A., McDonald, Robert Ramsey, and Elliott, Reed O.  
 INFLUENCE OF SPIN ON ELECTRONIC TRANSFORMATIONS.  
 Phys. Rev. Letters 6, 218-20 (1961). (LADC-4715)
- 61-100 Gschneidner, Karl A., Jr., Elliott, Reed O., and Struebing, Vernon O.  
 PHYSICAL FACTORS INFLUENCING THE STABILITIES OF PLUTONIUM PHASES. I. DELTA PLUTONIUM.  
 Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France, April 19-22, 1960. p. 134-42 (1961). (LADC-4143)
- 61-101 Gschneidner, Karl A., Jr., and Waber, James T.  
 PRINCIPLES OF THE ALLOYING BEHAVIOR OF RARE-EARTH METALS.  
Rare Earths, Spedding, F. H. and Daane, A. H. (eds)  
 (John Wiley & Sons, New York), p. 386-427 (1961).  
 (LADC-3886)
- 61-102 Gschneidner, Karl A., Jr.  
Rare Earth Alloys: a critical review of the alloy systems of the rare earths, scandium and yttrium metals. (Van Nostrand Co., Princeton, New Jersey) (1961). (LADC-3940)
- 61-103 Hagerman, Donald C. and Osher, John E.  
 INJECTION AND TRAPPING OF A  $\beta = 1$  PLASMA INTO A CUSPED MAGNETIC FIELD.  
 Phys. Fluids 4, 905-11 (1961). (LADC-4634)
- 61-104 Hakkila, E. Arnold.  
 X-RAY ABSORPTION EDGE DETERMINATION OF URANIUM IN COMPLEX MIXTURES.  
 Anal. Chem. 33, 1012-15 (1961). (LADC-4683)
- 61-105 Hammel, Edward F., Jr., and Keller, William E.  
 FOUNTAIN PRESSURE MEASUREMENTS IN LIQUID He II.  
 Phys. Rev. 124, 1641-45 (1961). (LADC-4998)

- 61-106 Hansen, Gordon E.  
 (Review of) FAST REACTOR CROSS SECTIONS - A STUDY LEADING TO  
 A 16 GROUP SET.  
 Nucleonics 19, 8, 87 (1961). (LADC-NN-51)
- 61-107 Harlow, Francis H. and Meixner, Billy D.  
 MOTION OF A VISCOUS COMPRESSIBLE GAS ADJACENT TO A SLIDING  
 PLATE.  
 Phys. Fluids 4, 1202-06 (1961). (LADC-4921)
- 61-108 Harris, Payne S.  
 RADIATION DOSE ESTIMATION IN THE 1958 LOS ALAMOS CRITICALITY  
 ACCIDENT.  
 Health Phys. 2, 37-44 (1961). (LADC-4152)
- 61-109 Harris, Payne S.  
 SPACE RADIATIONS: NATURAL AND MAN-MADE (With an introduction  
 of the speaker by Leo G. Rigler)  
 Radiology 76, 531-40 (1961). (LADC-4633)
- 61-110 Hayes, Bernard.  
 ON THE ELECTRICAL CONDUCTIVITY OF DETONATING HIGH EXPLOSIVES.  
 ONR Symp. Detonation, 3rd, James Forrestal Research Center,  
 Princeton Univ., September 26-28, 1960, 1, 139-49 (1961).  
 (LADC-4307)
- 61-111 Hoffman, Darleane C.  
 RECENT ADVANCES IN THE SEPARATION AND ANALYSIS OF THE  
 TRANSURANIUM ELEMENTS.  
 Progr. Nucl. Energy, Ser. IX. Anal. Chem., 2, 157-200  
 (1961). (LADC-4566)
- 61-112 Holley, Charles E., Jr., Milford, R. N. R., Huber, Elmer J.,  
 Head, Earl L., Ellinger, Finley H., and Bjorklund, Carl W.  
 THERMODYNAMICS AND PHASE RELATIONSHIPS FOR PLUTONIUM OXIDES.  
 Progr. Nucl. Energy, Ser. V. Metals and Fuel, 3, 128-38  
 (1961). (LADC-3332)

- 61-113 Huber, Elmer J., Head, Earl L., Holley, Charles E., Storms, Edmund K., and Krikorian, Nerses H.  
HEATS OF COMBUSTION OF NIOBIUM CARBIDES.  
J. Phys. Chem. 65, 1846-49 (1961). (LADC-4778)
- 61-114 Huebner, Walter F.  
RELATIONS BETWEEN PLASMA PHYSICS AND ASTROPHYSICS. COMMENTS ABOUT COMET TAILS.  
Rev. Mod. Phys. 33, 498 (1961). (LADC-4740)
- 61-115 Humason, Gretchen L. and Lushbaugh, Clarence C.  
FURTHER SUGGESTIONS ON THE COMBINED ELASTIN, RETICULUM AND COLLAGEN STAIN.  
Stain Technol. 36, 383 (1961). (LADC-4896)
- 61-116 Humason, Gretchen L. and Lushbaugh, Clarence C.  
QUICK PINACYANOLE STAIN FOR FROZEN SECTIONS.  
Stain Technol. 36, 257-8 (1961). (LADC-4684)
- 61-117 Jahoda, Franz C.  
SOFT X-RAY SPECTROSCOPY OF A HOT PLASMA.  
I.R.E. Trans. Nucl. Sci. 8, 4, 81-2 (1961). (LADC-4950)
- 61-118 Jarmie, Nelson.  
CONCERNING THE EXISTENCE OF RARE LIGHT NUCLEI.  
Nucl. Phys. 28, 426-7 (1961). (LADC-4895)
- 61-119 Jarmie, Nelson and Silbert, Myron G.  
NUCLIDES Ar<sup>42</sup> AND Cl<sup>39</sup>.  
Phys. Rev. 123, 909-10 (1961). (LADC-4790)
- 61-120 Jarmie, Nelson, Silbert, Myron G., and Smith, Darryl B.  
TWO-STAGE NUCLEAR REACTION  $N^{14}(t,n)O^{16}(p)N^{15}$ .  
Nucl. Phys. 25, 3, 443-6 (1961). (LADC-4600)
- 61-121 Jennings, Hugh K.  
CHARGING LARGE CAPACITOR BANKS IN THERMONUCLEAR RESEARCH.  
Elec. Eng. 80, 419-21 (1961). (LADC-4379)

- 61-122 Johnson, Karl W. R., Kahn, Milton, and Leary, Joseph A.  
 PHASE EQUILIBRIA IN FUSED SALT SYSTEMS: BINARY SYSTEMS OF  
 PLUTONIUM(III) CHLORIDE WITH THE CHLORIDES OF MAGNESIUM,  
 CALCIUM, STRONTIUM AND BARIUM.  
 J. Phys. Chem. 65, 2226-29 (1961). (LADC-3948)
- 61-123 Johnston, Robert R. and Watson, Kenneth M.  
 SECOND-ORDER OPTICAL POTENTIAL FOR PION-NUCLEUS SCATTERING.  
 Nucl. Phys. 28, 583-97 (1961). (LADC-4843)
- 61-124 Jones, Llewellyn H.  
 TRACTABLE POTENTIAL FUNCTIONS AS DERIVED FROM THEORIES OF  
 BONDING FOR METAL CARBONYLS AND METAL CYANIDE COMPLEXES.  
 Proc. Intern. Conf. Coordination Chem., 6th, Detroit,  
 p. 398-411 (1961). (LADC-4780)
- 61-125 Jones, Llewellyn H.  
 VIBRATIONAL SPECTRUM AND STRUCTURE OF METAL CYANIDE COMPLEXES  
 IN THE SOLID STATE. V.  $K_2Zn(CN)_4$ ,  $K_2Cd(CN)_4$ , AND  $K_2Hg(CN)_4$ .  
 Spectrochim. Acta 17, 188-200 (1961). (LADC-4466)
- 61-126 Kalmus, Ernest H.  
 AEROSOLPRAPARATION SUR UBERMIKROSKOPIE IN DER GEWERBEHYGIENE.  
 Fortschr. Med. 79, 451-3 (1961). (LADC-1412)
- 61-127 Karr, Hugh J., Knapp, Edward A., and Osher, John E.  
 ENERGY LOSS FROM A TOROIDAL PINCH DISCHARGE.  
 Phys. Fluids 4, 424-37 (1961). (LADC-4061)
- 61-128 Keenan, Thomas K.  
 FIRST OBSERVATION OF AQUEOUS TETRAVALENT CURIUM.  
 J. Am. Chem. Soc. 83, 3719-20 (1961). (LADC-4972)
- 61-129 Keenan, Thomas K.  
 RAPID AND EFFICIENT PURIFICATION OF AMERICIUM.  
 J. Inorg. & Nucl. Chem. 20, 185-8 (1961). (LADC-4641)



- 61-130 Keepin, G. Robert.  
 DELAYED NEUTRONS IN NUCLEAR FISSION.  
Encyclopaedic Dictionary of Physics, Thewlis, J. (ed)  
 (Pergamon Press, New York), v. 2, p. 280-1 (1961).  
 (LADC-2395)
- 61-131 Kempter, Charles P. and Fries, R. Jay.  
 CRYSTALLOGRAPHY OF THE Ru-B AND Os-B SYSTEMS.  
 J. Chem. Phys. 34, 1994-95 (1961). (LADC-4613)
- 61-132 Kerr, Eugene C. and Taylor, R. Dean.  
 COEFFICIENT OF EXPANSION OF LIQUID He<sup>3</sup>.  
 Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Ontario,  
 1960. p. 605-8 (1961). (LADC-4387)
- 61-133 Kiehn, Robert M.  
 ROLE OF PLUTONIUM IN NUCLEAR POWER.  
Metal Plutonium, Coffinberry, Arthur S. and Miner,  
 William N. (eds) (Univ. of Chicago Press, Chicago, Illinois),  
 p. 333-9 (1961). (LADC-3123)
- 61-134 Kirton, Allen H., Pearson, Albert M., Nelson, Ronald H.,  
 Anderson, Ernest C., and Schuch, Robert L.  
 USE OF NATURALLY OCCURRING POTASSIUM-40 TO DETERMINE THE  
 CARCASS COMPOSITION OF LIVE SHEEP.  
 J. Animal Sci. 20, 635-9 (1961). (LADC-5339)
- 61-135 Kissinger, Leonard W., Schwartz, Mortimer, and McQuiston,  
 William E.  
 GEM-DINITRO ESTERS. III. ESTERS OF 2,2-DINITROPROPANOL.  
 J. Org. Chem. 26, 5203-05 (1961). (LADC-4874)
- 61-136 Kmetko, Edward A.  
 EFFECT OF INTERLAMELLAR BISULFATE IONS UPON THE FLEXURAL  
 STRENGTH AND DIMENSIONS OF POLYCRYSTALLINE GRAPHITE.  
 J. Chim. Phys. 58, 115-9 (1961). (LADC-4129)

- 61-137 Knight, Herbert T. and Rink, John P.  
DISSOCIATION ENERGY OF CYANOGEN AND RELATED QUANTITIES BY  
X-RAY DENSITOMETRY OF SHOCK WAVES.  
J. Chem. Phys. 35, 199-208 (1961). (LADC-3870)
- 61-138 Kruse, Ferdinand Hobert, Asprey, Larned B., and Morosin, Bruno.  
CRYSTAL STRUCTURE OF THE LANTHANIDE OXYIODIDES, SmOI, TmOI  
AND YbOI.  
Acta Cryst. 14, 541-2 (1961). (LADC-4547)
- 61-139 Kruse, Ferdinand Hobert.  
POTASSIUM OSMYL CHLORIDE - REFINEMENT OF THE CRYSTAL  
STRUCTURE.  
Acta Cryst. 14, 1035-41 (1961). (LADC-4578)
- 61-140 Langham, Wright H.  
APPLICATIONS OF WHOLE BODY LIQUID SCINTILLATION COUNTERS.  
Radioactivity in Man, Meneely, George R. (ed) (Thomas  
Publishing House, Springfield, Illinois), p. 311-22 (1961).  
(LADC-4314)
- 61-141 Langham, Wright H.  
SOME CONSIDERATIONS OF PRESENT BIOSPHERIC CONTAMINATION BY  
RADIOACTIVE FALLOUT.  
J. Agr. Food Chem. 9, 91-5 (1961). (LADC-4309)
- 61-142 Langham, Wright H.  
SOME RADIATION PROBLEMS OF SPACE CONQUEST.  
Astronautik 2, 272-94 (1961). (LADC-4465)
- 61-143 Laquer, Henry L.  
SOUND-VELOCITY MEASUREMENTS ON ALPHA-PHASE PLUTONIUM.  
Metal Plutonium, Coffinberry, Arthur S. and Miner,  
William N. (eds) (Univ. of Chicago Press, Chicago, Illinois),  
p. 157-82 (1961). (LADC-3090)
- 61-144 Larson, Allen C. and Cromer, Don T.  
CRYSTAL STRUCTURE OF CeCu.  
Acta Cryst. 14, 545-6 (1961). (LADC-4621)

- 61-145 Larson, Allen C. and Cromer, Don T.  
CRYSTAL STRUCTURE OF  $\text{CeCu}_2$ .  
Acta Cryst. 14, 73-4 (1961). (LADC-4135)
- 61-146 Larson, Allen C. and Cromer, Don T.  
CRYSTAL STRUCTURE OF  $\text{Zr}(\text{IO}_3)_4$ .  
Acta Cryst. 14, 128-32 (1961). (LADC-3824)
- 61-147 Leitnaker, James M., Bowman, Melvin G., and Gilles, Paul W.  
HIGH-TEMPERATURE PHASE STUDIES IN THE TANTALUM-BORON SYSTEM  
BETWEEN Ta AND TaB.  
J. Electrochem. Soc. 108, 568-72 (1961). (LADC-4258)
- 61-148 Lenz, William H. and Taub, James M.  
LIQUID OXIDE PHASE SINTERING OF MOLYBDENUM AND TUNGSTEN.  
J. Less-Common Metals 3, 429-32 (1961). (LADC-4785)
- 61-149 LeSturgeon, William L.  
PARALLEL PROBIT ANALYSIS "PAP", IBM 704, 33K, FORTRAN II.  
Technometrics 3, 571-72 (1961). (In article by Fred C.  
Leone entitled "Statistical Programs for High Speed  
Computers".) (LADC-4886)
- 61-150 Lewis, W. Burton and Pretzel, Frank E.  
PROPERTIES OF LITHIUM HYDRIDE - III. PARAMAGNETIC  
RESONANCE OF COLOR CENTERS.  
Phys. Chem. Solids 19, 139-46 (1961). (LADC-4572)
- 61-151 Lind, David A. and Day, Robert B.  
STUDIES OF GAMMA RAYS FROM NEUTRON INELASTIC SCATTERING.  
Ann. Phys. 12, 485-532 (1961). (LADC-2925)
- 61-152 Little, Edward M., Quinn, Warren E., and Ribe, Fred L.  
EFFECTS OF IONIZATION AND MAGNETIC INITIAL CONDITIONS ON A  
MAGNETICALLY COMPRESSED PLASMA (SCYLLA).  
Phys. Fluids 4, 711-30 (1961). (LADC-4647)

- 61-153 Little, Edward M., Marshall, John, Quinn, Warren E., and Stratton, Thomas F.  
 INJECTED MAGNETIC COMPRESSION EXPERIMENT.  
 Phys. Fluids 4, 1570-71 (1961). (LADC-5025)
- 61-154 Lunsford, John L., Fries, R. Jay, and Kempter, Charles P.  
 CRYSTALLOGRAPHIC DATA: URANIUM DIBORIDE.  
 Crystal Front 2, 1, 13-4 (1961). (LADC-4623)
- 61-155 Lushbaugh, Clarence C.  
 USE OF RADIOISOTOPES AND RADIATION IN THE DIAGNOSIS OF DISEASES: WHOLE BODY COUNTING.  
 Joint Committee on Atomic Energy, Applications of radioisotopes and radiation in life sciences. Hearings before the Subcommittee on Research Development and Radiation, March 27-30, 1961. p. 27-45. (LADC-4794)
- 61-156 Lust, Reimar, Suydam, Bergen R., Richtmyer, Robert D., Rotenberg, Aubrey, and Levy, Dorothy.  
 HYDROMAGNETIC STABILITY OF A TOROIDAL GAS DISCHARGE.  
 Phys. Fluids 4, 891-901 (1961). (LADC-NN-2)
- 61-157 McKibben, Joseph L.  
 ACCELERATING TUBE.  
Encyclopaedic Dictionary of Physics, (Pergamon Press, New York), v. 1, p. 13-14 (1961). (LADC-PUB-127)
- 61-158 McKibben, Joseph L.  
 HIGH VOLTAGE MEASUREMENT.  
Encyclopaedic Dictionary of Physics, (Pergamon Press, New York), v. 3, p. 697-700 (1961). (LADC-4320)
- 61-159 MacMillan, Donald P.  
 HIGH-TEMPERATURE MATERIALS FOR ROCKET REACTORS.  
 Nucleonics 19, 4, 85-8 (1961). (LADC-4666)
- 61-160 McNeese, Wilbur D.  
 DISCUSSION ON PAPERS 6, 13, 27 AND 32.  
 Proc. Intern. Conf. Plutonium Met., 2nd, Grenoble, France, April 19-22, 1960. p. 314-7 (1961). (LADC-NN-80)

- 61-161 McNeese, Wilbur D. and Anderson, John W.  
 PLUTONIUM DISKS FOR LAMPRE CRITICAL ASSEMBLY.  
 Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France,  
 April 19-22, 1960. p. 570-9 (1961). (LADC-4166)
- 61-162 Mader, Charles L.  
 DETONATION PERFORMANCE CALCULATION USING THE KISTIAKOWSKY-  
 WILSON EQUATION OF STATE.  
 ONR Symp. Detonation, 3rd, James Forrestal Research Center,  
 Princeton Univ., September 26-28, 1960, 1, 67-79 (1961).  
 (LADC-4304)
- 61-163 Maraman, William J. and Baker, Richard D.  
 CALCIUM REDUCTION OF PLUTONIUM HALIDES TO METAL.  
 Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France,  
 April 19-22, 1960. p. 202-15 (1961). (LADC-3012)
- 61-164 Masters, Burton J. and Schwartz, Larry L.  
 ISOTOPIC EXCHANGE STUDY OF THE U(IV)-U(V)-U(VI) EQUILIBRIUM  
 IN AQUEOUS PERCHLORATE SOLUTIONS.  
 J. Am. Chem. Soc. 83, 2620-24 (1961). (LADC-4372)
- 61-165 Miller, Daniel Weber, Wegner, Harvey E., and Hall, W. Stanley.  
 COULOMB-DISTORTED (d,p) ANGULAR DISTRIBUTIONS AS A FUNCTION  
 OF BOMBARDING ENERGY.  
 Proc. Rutherford Jubilee Intern. Conf., 557-8 (1961).  
 (LADC-4721)
- 61-166 Mills, Carroll B.  
 MINIMUM CRITICAL DIMENSIONS FOR WATER SOLUTIONS.  
 Nucl. Sci. Eng. 2, 377-90 (1961). (LADC-4402)
- 61-167 Mills, Robert L., Grilly, Edward R., and Sydoriak, Stephen G.  
 ANOMALOUS MELTING PROPERTIES OF He<sup>3</sup>.  
 Ann. Phys. 12, 41-55 (1961). (LADC-4375)
- 61-168 Mills, Robert L. and Schuch, Adam F.  
 CRYSTAL STRUCTURE OF THE  $\beta$  FORM OF He<sup>4</sup>.  
 Phys. Rev. Letters 6, 263-4 (1961). (LADC-4734)

- 61-169 Mills, Robert L., Sydoriak, Stephen G., and Grilly, Edward R.  
PVT ANOMALIES IN He<sup>3</sup> NEAR ITS MELTING CURVE.  
Proc. Intern. Conf. Low Temp. Phys., 7th, Toronto, Ontario,  
1960. p. 613-7 (1961). (LADC-4330)
- 61-170 Miner, William N., Coffinberry, Arthur S., Schonfeld, Fred W.,  
Waber, James T., Mulford Robert N. R., and Tate, Raymond E.  
PLUTONIUM.  
Rare Metals Handbook, 2nd ed., Hampel, Clifford A. (ed)  
(Reinhold, New York City), Chap. 18, p. 336-92 (1961).  
(LADC-4100)
- 61-171 Minshall, F. Stanley.  
DYNAMIC RESPONSE OF IRON AND IRON ALLOYS TO SHOCK WAVES.  
Met. Soc. Conf. 2, 249-74 (1961). (LADC-4404)
- 61-172 Mitchell, Kenneth B.  
SPECTROSCOPIC STUDIES OF IONIZATION IN A HOLLOW-CATHODE  
DISCHARGE.  
J. Optical Soc. Am. 51, 846-53 (1961). (LADC-4371)
- 61-173 Mjolsness, Raymond C., Ribe, Fred L., and Riesenfeld, Werner B.  
SELF-CONSISTENT REVERSED FIELD SHEATH.  
Phys. Fluids 4, 730-5 (1961). (LADC-4648)
- 61-174 Mohler, Ronald R. and Perry, Joseph E., Jr.  
NUCLEAR ROCKET ENGINE CONTROL.  
Nucleonics 19, 4, 80-4 (1961). (LADC-4657)
- 61-175 Moss, William D., Hyatt, Edwin C., and Schulte, Harry F.  
PARTICLE SIZE STUDIES ON PLUTONIUM AEROSOLS.  
Health Phys. 5, 212-8 (1961). (LADC-4208)
- 61-176 Mulford, Robert N. R., Ellinger, Finley H., Hendrix, Gladys  
Sturdy, and Albrecht, Edward Daniel.  
PLUTONIUM-CARBON SYSTEMS.  
Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France,  
April 19-22, 1960, p. 301-11 (1961). (LADC-4092)

- 61-177 Mulford, Robert N. R. and LaMar, Lawrence E.  
VOLATILITY OF PLUTONIUM OXIDE.  
Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France,  
April 19-22, 1960, p. 411-21 (1961). (LADC-4091)
- 61-178 Muller, Ralph H.  
PARTICLE INTERACTIONS WITH MATTER; BACK-SCATTERING AND EXCI-  
TATION OF CHARACTERISTIC X-RAYS.  
Progr. Nucl. Energy, Ser. IX, Anal. Chem., 2, 313-37 (1961).  
(LADC-4286)
- 61-179 Nadler, Marion R. and Kempter, Charles P.  
THERMOCOUPLES FOR USE IN CARBON ATMOSPHERES.  
Rev. Sci. Instr. 32, 43-7 (1961). (LADC-4422)
- 61-180 Oliphant, Thomas A.  
IMPLICIT, NUMERICAL METHOD FOR SOLVING TWO-DIMENSIONAL TIME-  
DEPENDENT DIFFUSION PROBLEMS.  
Quart. Appl. Math. 19, 221-9 (1961). (LADC-4573)
- 61-181 Olsen, Clayton E.  
THE ELECTRICAL RESISTIVITY OF  $ZrZn_2$ .  
Phys. Chem. Solids 19, 228-9 (1961). (LADC-4599)
- 61-182 Onstott, Edward I.  
SEPARATION OF THE LANTHANONS AT AMALGAM CATHODES.  
MEASUREMENT OF THE SEPARABILITY OF PRASEODYMIUM AND  
NEODYMIUM IN AQUEOUS LITHIUM CITRATE ELECTROLYTES.  
Anal. Chem. 33, 1470-73 (1961). (LADC-4654)
- 61-183 Onstott, Edward I.  
SOME ELECTROCHEMICAL DIFFERENCES OF THE LANTHANONS AS  
RELATED TO THEIR SEPARABILITY AT AMALGAM CATHODES.  
Rare Earth Research, Kleber, Eugene V. (ed) (Macmillan,  
New York), p. 51-7 (1961). (LADC-4476)
- 61-184 Orth, Charles J. and Dropesky, Bruce J.  
DECAY OF  $Er^{172}$  AND  $Tm^{172}$ .  
Phys. Rev. 122, 1295-1301 (1961). (LADC-4670)

- 61-185 Orth, Charles J.  
 DIFFUSION OF LANTHANIDES AND ACTINIDES FROM GRAPHITE AT  
 HIGH TEMPERATURES.  
 Nucl. Sci. Eng. 9, 417-20 (1961). (LADC-4568)
- 61-186 Ott, Donald G., Schweitzer, William H., Sayeg, Joseph A., and  
 Harris, Payne S.  
 TRICHLOROETHYLENE-SATURATED WATER AND TETRACHLOROETHYLENE  
 CHEMICAL DOSIMETER SYSTEMS - NEUTRON RESPONSE.  
 Health Phys. 7, 20-4 (1961). (LADC-3748)
- 61-187 Penneman, Robert A., Coleman, James S., and Keenan, Thomas K.  
 ALKALINE OXIDATION OF AMERICIUM: PREPARATION AND REACTIONS  
 OF Am(IV) HYDROXIDE.  
 J. Inorg. & Nucl. Chem. 17, 138-45 (1961). (LADC-4406)
- 61-188 Penneman, Robert A. and Jones, Llewellyn H.  
 INFRARED ABSORPTION STUDIES OF THE AQUEOUS CYANIDE COMPLEXES  
 OF MERCURY, CADMIUM, AND ZINC.  
 J. Inorg. & Nucl. Chem. 20, 1/2, 19-31 (1961).  
 (LADC-4161)
- 61-189 Perkins, Roger B. and Simmons, James E.  
 $T(d,n)He^4$  REACTION AS A SOURCE OF POLARIZED NEUTRONS.  
 Phys. Rev. 124, 1153-54 (1961). (LADC-4901)
- 61-190 Petersen, Donald F., Mitchell, Victoria E., and Langham, Wright  
 H.  
 ESTIMATION OF FAST NEUTRON DOSES IN MAN BY  $S^{32}(n,p)P^{32}$   
 REACTION IN BODY HAIR.  
 Health Phys. 6, 1-5 (1961). (LADC-4671)
- 61-191 Phelps, Charles G.  
 SILICON WAFERS FOR  $dE/dx$  DETECTORS.  
Semiconductor Nuclear Particle Detectors: Proceedings of  
 an informal conference, Asheville, North Carolina,  
 September 28-30, 1960. Dabbs, J. W. T. and Walter, F. J.  
 (eds), National Academy of Science - National Research  
 Council Pub. 871. Nuclear Science Series Rept. No. 32.  
 p. 273-74 (1961). (LADC-4616)



- 61-192 Prestwood, Rene J. and Bayhurst, Barbara P.  
 (n,2n) EXCITATION FUNCTIONS OF SEVERAL NUCLEI FROM 12.0 TO  
 19.8 MEV.  
 Phys. Rev. 121, 1438-41 (1961). (LADC-4567)
- 61-193 Pretzel, Frank E. and Petty, Roy L.  
 INTERSTITIAL DEFECTS IN LiH AND NaCl IRRADIATED AT LOW  
 TEMPERATURES.  
 Phys. Rev. 123, 464-5 (1961). (LADC-4770)
- 61-194 Pretzel, Frank E. and Rushing, Charles Carey.  
 PROPERTIES OF LITHIUM HYDRIDE - II. OPTICAL ABSORPTION  
 BY COLOR CENTERS.  
 Phys. Chem. Solids 17, 232-45 (1961). (LADC-4087)
- 61-195 Rabideau, Sherman W. and Moore, Roger, H.  
 APPLICATION OF HIGH-SPEED COMPUTERS TO THE LEAST SQUARES  
 DETERMINATION OF THE FORMATION CONSTANTS OF THE CHLORO-  
 COMPLEXES OF TIN(II).  
 J. Phys. Chem. 65, 371-3 (1961). (LADC-4251)
- 61-196 Rabideau, Sherman W. and Masters, Burton J.  
 KINETICS OF THE REACTION BETWEEN Pu(IV) AND Sn(II) IN  
 CHLORIDE-PERCHLORATE SOLUTION.  
 J. Phys. Chem. 65, 1256-61 (1961). (LADC-4696)
- 61-197 Rao, K. Narahari, Brim, Warren W., Hoffman, James M., Jones,  
 Llewellyn H., and McDowell, Robin S.  
 V<sub>2</sub> AND V<sub>4</sub> BANDS OF THE N<sub>2</sub> MOLECULE.  
 J. Mol. Spectr. 7, 362-83 (1961). (LADC-5325)
- 61-198 Reiswig, Robert D.  
 THERMAL CONDUCTIVITY OF UO<sub>2</sub> TO 2100°C.  
 J. Am. Ceram. Soc. 44, 48-9 (1961). (LADC-4451)
- 61-199 Reynolds, Clayton E. and Seay, Glenn E.  
 MULTIPLE SHOCK WAVE STRUCTURES IN POLYCRYSTALLINE  
 FERROELECTRICS.  
 J. Appl. Phys. 32, 1401-02 (1961). (LADC-4727)

- 61-200 Rice, Melvin H.  
CAPACITOR TECHNIQUE FOR MEASURING THE VELOCITY OF A PLANE  
CONDUCTING SURFACE.  
Rev. Sci. Instr. 32, 449-51 (1961). (LADC-4606)
- 61-201 Richmond, Chester R. and Furchner, John E.  
EFFECT OF A CARBONIC ANHYDRASE INHIBITOR (DIAMOX) ON Cs 137  
EXCRETION BY RATS.  
Health Phys. 6, 36-40 (1961). (LADC-4576)
- 61-202 Richmond, Chester R. and Furchner, John E.  
ENHANCEMENT OF CESIUM-137 EXCRETION BY RATS FED POTASSIUM-  
SUPPLEMENTED DIETS.  
Proc. Soc. Exp. Biol. Med. 108, 797-8 (1961). (LADC-5060)
- 61-203 Rink, John P., Knight, Herbert T., and Duff, Russell E.  
SHOCK TUBE DETERMINATION OF DISSOCIATION RATES OF OXYGEN.  
J. Chem. Phys. 34, 1942-47 (1961). Also: Bull. Am. Phys.  
Soc. 2, 6, 213 (1961). (LADC-4560)
- 61-204 Rogers, John D. and Williams, Dudley.  
NITROSYL CHLORIDE STRUCTURE.  
J. Chem. Phys. 34, 2195-96 (1961). (LADC-4768)
- 61-205 Rogers, Raymond N.  
SIMPLE MICROSCALE DIFFERENTIAL THERMAL ANALYSIS OF EXPLOSIVES.  
Microchem. J. 5, 91-9 (1961). (LADC-4636)
- 61-206 Roof, Raymond B., Jr., Larson, Allen C., and Cromer, Don T.  
CRYSTAL STRUCTURE OF Ce<sub>7</sub>Ni<sub>3</sub>.  
Acta Cryst. 14, 1084-87 (1961). (LADC-4694)
- 61-207 Roof, Raymond B., Jr.  
EXPERIMENTAL ATOMIC SCATTERING FACTORS AND ANOMALOUS  
DISPERSION CORRECTIONS FOR Th, U, AND Pu.  
Acta Cryst. 14, 934-40 (1961). (LADC-4151)

- 61-208 Rosen, Louis, Brolley, John E., Gursky, Martin L., and Stewart, Leona.  
ELASTIC SCATTERING OF 8-MEV POLARIZED PROTONS.  
Phys. Rev. 124, 199-202 (1961). (LADC-4891)
- 61-209 Rosen, Louis, Brolley, John E., Jr., and Stewart, Leona.  
ELASTIC SCATTERING OF POLARIZED 10-MEV PROTONS BY COMPLEX NUCLEI.  
Phys. Rev. 121, 1423-37 (1961). (LADC-4520)
- 61-210 Rowe, Marvin W. and Van Dilla, Marvin A.  
ON THE RADIOACTIVITY OF THE BRUDERHEIM CHONDRITE.  
J. Geophys. Res. 66, 3553-56 (1961). (LADC-4923)
- 61-211 Sampson, Douglas H.  
RADIATION RELAXATION TIMES AT HIGH TEMPERATURES.  
Astrophys. J. 134, 482-99 (1961). (LADC-4773)
- 61-212 Sandenaw, Thomas A. and Olsen, Clayton E.  
ELECTRICAL RESISTIVITY OF PLUTONIUM METAL BETWEEN 1.73°K AND 295°K.  
Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France, April 19-22, 1960. p. 59-66 (1961). (LADC-4146)
- 61-213 Sandenaw, Thomas A., Olsen, Clayton E., and Gibney, Robert B.  
HEAT CAPACITY OF PLUTONIUM METAL BELOW 300°K.  
Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France, April 19-22, 1960. p. 66-99 (1961). (LADC-4167)
- 61-214 Sandenaw, Thomas A.  
RESULTS OF MEASUREMENTS OF PHYSICAL PROPERTIES OF PLUTONIUM METAL.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William N. (eds) (Univ. of Chicago Press, Chicago, Illinois), p. 152-56 (1961). (LADC-3089)

- 61-215 Sandenaw, Thomas A.  
 THERMAL EXPANSION OF PLUTONIUM METAL BELOW 300°K.  
 Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France,  
 April 19-22, 1960. p. 79-90 (1961). (LADC-4147)
- 61-216 Sanders, Phyllis C., Petersen, Donald F., and Langham,  
 Wright H.  
 INFLUENCE OF INTRANUCLEAR IRRADIATION ON THE GROWTH OF HeLa  
 CELLS IN AGITATED FLUID MEDIUM.  
 Ann. N. Y. Acad. Sci. 95, 969-74 (1961). (LADC-4675)
- 61-217 Schardt, Alois W.  
 HALF-LIFE OF B<sup>12</sup>, Na<sup>24m</sup>, AND As<sup>75m</sup>.  
 Phys. Rev. 122, 1871-74 (1961). (LADC-4713)
- 61-218 Schardt, Alois W. and Goodman, Albert.  
 SHORT-LIVED ISOMERS OF Ge<sup>71</sup>, As<sup>74</sup>, Br<sup>78</sup>, AND Tc.  
 Phys. Rev. 123, 893-7 (1961). (LADC-4782)
- 61-219 Schonfeld, Fred W.  
 DISCUSSION ON PAPERS 4, 14, 12 AND 43.  
 Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France,  
 April 19-22, 1960. p. 91-5 (1961). (LADC-NN-43)
- 61-220 Schonfeld, Fred W.  
 PLUTONIUM PHASE DIAGRAMS PUBLISHED BY THE RUSSIANS.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William  
 N. (eds) (Univ. of Chicago Press, Chicago, Illinois),  
 p. 255-64 (1961). (LADC-NN-40)
- 61-221 Schonfeld, Fred W.  
 PLUTONIUM PHASE DIAGRAMS STUDIED AT LOS ALAMOS.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William  
 N. (eds) (Univ. of Chicago Press, Chicago, Illinois),  
 p. 240-54 (1961). (LADC-NN-32)
- 61-222 Schreiber, Raemer.  
 KIWI TESTS PAVE WAY TO ROVER.  
 Nucleonics 19, 4, 77-9 (1961). (LADC-PUB-250a)

- 61-223 Schreiber, Raemer E.  
 NUCLEAR ROCKETS (PROJECT ROVER).  
Advanced Propulsion Techniques, Penner, S. S. (ed)  
 (Pergamon Press, New York), p. 25-33 (1961).  
 (LADC-PUB-250b)
- 61-224 Schuch, Adam F.  
 BOND-LENGTHS IN SOLID HELIUM.  
 Nature 191, 591 (1961). (LADC-4912)
- 61-225 Schuch, Adam F. and Mills, Robert L.  
 NEW ALLOTROPIC FORM OF He<sup>3</sup>.  
 Phys. Rev. Letters 6, 596-7 (1961). (LADC-4864)
- 61-226 Schulte, Harry F. and Hyatt, Edwin C.  
 BERYLLIUM MACHINING: HAZARD CONTROLS AND COSTS.  
 Kettering Lab. Rept., 19-33 (1961). (LADC-4668)
- 61-227 Seay, Glenn E. and Seely, Leslie B., Jr.  
 INITIATION OF LOW DENSITY PETN PRESSING BY A PLANE SHOCK  
 WAVE.  
 J. Appl. Phys. 32, 1092-97 (1961). Also: ONR Symp.  
 Detonation, 3rd, James Forrestal Res. Center, Princeton Univ.,  
 September 26-28, 1960, 2, 562-73 (1961). (LADC-4300)
- 61-228 Seay, Glenn E., Seely, Leslie B., Jr., and Fowler, Richard  
 Gidlert.  
 PRODUCTION OF HIGH ION DENSITIES IN HELIUM BY MEANS OF HIGH  
 EXPLOSIVES.  
 J. Appl. Phys. 32, 11, 2439-47 (1961). (LADC-4872)
- 61-229 Seeger, Philip A.  
 SEMIEMPIRICAL ATOMIC MASS LAW.  
 Nucl. Phys. 25, 1-135 (1961). (LADC-4041)

- 61-230 Shipman, Thomas L., Lushbaugh, Clarence C., Petersen, Donald F.,  
Langham, Wright H., Harris, Payne S., and Lawrence, James N. P.  
ACUTE RADIATION DEATH RESULTING FROM AN ACCIDENTAL NUCLEAR  
CRITICAL EXCURSION.  
J. Occupational Med. 3, 145-92 (1961). (LADC-4537)
- 61-231 Shipman, Thomas L.  
RADIATION FATALITY RESULTING FROM MASSIVE OVEREXPOSURE TO  
NEUTRONS AND GAMMA RAYS.  
Diagnosis and Treatment of Acute Radiation Injury,  
(World Health Organization, Geneva), p. 113-33 (1961).  
(LADC-4537)
- 61-232 Silbert, Myron G. and Jarmie, Nelson.  
NUCLEAR ENERGY LEVELS OF F<sup>19</sup>, F<sup>21</sup>, Ne<sup>22</sup>, AND Ne<sup>24</sup>.  
Phys. Rev. 123, 221-8 (1961). (LADC-4432)
- 61-233 Silbert, Myron G., Jarmie, Nelson, and Smith, Darryl B.  
NUCLEAR ENERGY LEVELS OF N<sup>16</sup>.  
Nucl. Phys. 25, 438-42 (1961). (LADC-4736)
- 61-234 Simmons, James E. and Perkins, Roger B.  
LIQUID HELIUM SCINTILLATION COUNTER AS A NEUTRON POLARIMETER.  
Rev. Sci. Instr. 32, 1173-78 (1961). (LADC-4792)
- 61-235 Smith, Cyril Stanley and Fowler, Clarence M.  
FURTHER METALLOGRAPHIC STUDIES ON METALS AFTER EXPLOSIVE  
SHOCK.  
Met. Soc. Conf. 9, 309-41 (1961). (LADC-4418)
- 61-236 Smith, Helen Louise.  
ALPHA/BETA BRANCHING RATIO OF <sup>241</sup>Pu.  
J. Inorg. & Nucl. Chem. 17, 178-9 (1961). (LADC-4491)
- 61-237 Spalding, John F., Trujillo, Theodore T., and LeStourgeon,  
William L.  
DEPENDENCE OF RATE OF RECOVERY FROM ACUTE GAMMA-RAY EXPOSURE  
ON SIZE OF THE CONDITIONING DOSE.  
Radiation Res. 15, 378-89 (1961). (LADC-4691)

- 61-238 Spalding, John F., Strang, Verda G., and LeStourgeon, William L.  
HERITABILITY OF RADIATION DAMAGE IN MICE.  
Genetics 46, 129-33 (1961). (LADC-4458)
- 61-239 Spalding, John F. and Strang, Verda G.  
INHERITANCE OF RADIATION-INDUCED DECREMENT IN ABILITY OF MICE TO WITHSTAND PROTRACTED GAMMA RADIATION STRESS.  
Radiation Res. 15, 329-32 (1961). (LADC-4680)
- 61-240 Spalding, John F., Trujillo, Theodore T., and LeStourgeon, William L.  
PREDICTABILITY OF IRREPARABLE BIOLOGICAL DAMAGE FROM EXPOSURE TO IONIZING RADIATION.  
Radiation Res. 15, 754-60 (1961). (LADC-4833)
- 61-241 Stokes, Richard H.  
(d,p) REACTION ON HEAVY ELEMENTS AT LOW DEUTERON ENERGIES.  
Phys. Rev. 121, 613-8 (1961). (LADC-4448)
- 61-242 Stout, Ellis L.  
SAFETY CONSIDERATIONS IN PLUTONIUM METALLURGY.  
Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France, April 19-22, 1960. p. 245-56 (1961). (LADC-4176)
- 61-243 Sullivan, John H.  
THERMAL REACTIONS OF HYDROGEN IODIDE WITH ALKYL IODIDES.  
J. Phys. Chem. 65, 722-7 (1961). (LADC-4099)
- 61-244 Swihart, Thomas L. and Fischel, David.  
SERIES OF SUBDWARF ATMOSPHERES.  
Astrophys. J., Suppl. Ser. 5, 49, 291-380 (1961).  
(LADC-4308b)
- 61-245 Tate, Raymond E.  
FABRICATION OF BILLETS CONTAINING PLUTONIUM FOR MIR FUEL ELEMENTS.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William N. (eds) (Univ. of Chicago Press, Chicago, Illinois), p. 347-64 (1961). (LADC-3101)

- 61-246 Tenney, Gerold H.  
RELATION BETWEEN RESULTS OF NON-DESTRUCTIVE TESTING OF  
MATERIALS AND THEIR MECHANICAL STRENGTH.  
Proc. Intern. Conf. Non-Destructive Testing, 3rd. Tokyo  
and Osaka. Science Council of Japan. March, 1960. (Pan  
Pacific Press, Tokyo, Japan), p. 85-90 (1961).  
(LADC-4186)
- 61-247 Terrell, James.  
RADIATION PRESSURE ON A RELATIVISTICALLY MOVING MIRROR.  
Am. J. Phys. 29, 644 (1961). (LADC-4693)
- 61-248 Tuck, James L.  
THERMONUCLEAR REACTION RATES.  
Nucl. Fusion 1, 201-2 (1961). (LADC-4924)
- 61-249 Ulam, Stanislaw M.  
MONTE CARLO CALCULATIONS IN PROBLEMS OF MATHEMATICAL PHYSICS.  
Mod. Math. Engineer 2nd Ser., 261-81 (1961). (LADC-3461)
- 61-250 Ulam, Stanislaw M.  
ON SOME STATISTICAL PROPERTIES OF DYNAMICAL SYSTEMS.  
Proc., Berkeley Symp. Math. Stat. Probability, 4th, 1960.  
3, 315-20 (1961). (LADC-NN-82)
- 61-251 Urizar, Manuel J., James, Edward, Jr., and Smith, Louis C.  
DETONATION VELOCITY OF PRESSED TNT.  
Phys. Fluids 4, 262-74 (1961). Also: ONR Symp. Detonation,  
3rd, James Forrestal Res. Center, Princeton Univ.,  
September 26-28, 1960. 2, 327-56 (1961). (LADC-4303)
- 61-252 Van Dilla, Marvin A., Farmer, Garland Ray, and Bohman, Verle  
Rudolph.  
FALLOUT RADIOACTIVITY IN CATTLE AND ITS EFFECTS.  
Science 133, 1075-77 (1961). (LADC-4484)



- 61-253 Van Dilla, Marvin A.  
 SOME APPLICATIONS OF THE LOS ALAMOS HUMAN SPECTROMETER.  
Radioactivity in Man, Meneely, George R. (ed) (Thomas Publishing House, Springfield, Illinois), p. 219-30 (1961).  
 (LADC-4218)
- 61-254 Vogel, Richard E. and Kempter, Charles P.  
 MATHEMATICAL TECHNIQUE FOR THE PRECISION DETERMINATION OF LATTICE PARAMETERS.  
 Acta Cryst. 14, 1130-34 (1961). (LADC-3999)
- 61-255 Waber, James T., Olson, William M., and Roof, Raymond B., Jr.  
 ATMOSPHERIC CORROSION TESTS OF SEVERAL DELTA-PHASE ALLOYS OF PLUTONIUM.  
 J. Nucl. Mater. 3, 201-15 (1961). (LADC-4326)
- 61-256 Waber, James T. and Wright, Edward S.  
 CORROSION OF PLUTONIUM.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William N. (eds) (Univ. of Chicago Press, Chicago, Illinois), p. 194-204 (1961). (LADC-3107)
- 61-257 Waber, James T. and Gschneidner, Karl A., Jr.  
 PRINCIPLES OF THE ALLOYING BEHAVIOUR OF PLUTONIUM.  
 II, QUASI-THERMODYNAMIC APPROACHES.  
 Proc. 2nd Intern. Conf. Plutonium Met., Grenoble, France, April 19-22, 1960. p. 109-34 (1961). (LADC-4178)
- 61-258 Ward, Gerald M.  
 PROBLEMS OF MILK SUPPLY ASSOCIATED WITH POSSIBLE NUCLEAR REACTOR ACCIDENTS.  
 J. Dairy Sci. 44, 1958-61 (1961). (LADC-4963)
- 61-259 Waterbury, Glenn R., Douglass, Robert M., and Metz, Charles F.  
 THERMOGRAVIMETRIC BEHAVIOR OF PLUTONIUM METAL, NITRATE, SULFATE, AND OXALATE.  
 Anal. Chem. 33, 1018-23 (1961). (LADC-4733)

- 61-260 Wegner, Harvey E.  
 $dE/dx$  - E SEMICONDUCTOR DETECTOR SYSTEMS.  
Semiconductor Nuclear Particle Detectors: Proceedings of an informal conference, Asheville, North Carolina, September 28-30, 1960. Dabbs, J. W. T. and Walter, F. J. (eds), National Academy of Science - National Research Council Pub. 871. Nuclear Science Series Rept. No. 32. p. 74-85 (1961). (LADC-4502)
- 61-261 Wegner, Harvey E.  
 $dE/dx$  AND E SEMICONDUCTOR DETECTOR SYSTEMS FOR 25-MEV He<sup>3</sup> AND ALPHA PARTICLES.  
 I.R.E., Trans. Nucl. Sci. 8, 103-11 (1961). (LADC-4502)
- 61-262 Wells, Mark B.  
 GENERATION OF PERMUTATIONS BY TRANSPOSITION.  
 Math. Comput. 15, 192-5 (1961). (LADC-4472)
- 61-263 Wells, Mark B.  
 MADCAP: A SCIENTIFIC COMPILER FOR A DISPLAYED FORMULA TEXTBOOK LANGUAGE.  
 Comm. Assoc. Comput. Mach. 4, 31-6 (1961). (LADC-4620)
- 61-264 Wendroff, Burton.  
 ON ORTHOGONAL POLYNOMIALS.  
 Am. Math. Soc. Proc. 12, 554-5 (1961). (LADC-4321)
- 61-265 Wendroff, Burton.  
 STRUCTURE OF CERTAIN FINITE DIFFERENCE SCHEMES.  
 Soc. Ind. Appl. Math., Rev. 3, 237-42 (1961).  
 (LADC-4419)
- 61-266 Wood, William Wayne.  
 EXISTENCE OF DETONATIONS FOR SMALL VALUES OF THE RATE PARAMETER.  
 Phys. Fluids 4, 46-60 (1961). (LADC-4558)

- 61-267 Woodcock, Edward R. and Paxton, Hugh C.  
 CRITICALITY ASPECTS OF TRANSPORTATION OF FISSIONABLE MATERIALS.  
 Progr. Nucl. Energy, Ser. IV, 4, 401-34 (1961).  
 (LADC-PUB-278)
- 61-268 Young, James E. and Stein, Paul R.  
 CLUSTER MODEL REPRESENTATION FOR THE 3-BODY GROUND STATE.  
 Nucl. Phys. 26, 97-107 (1961). (LADC-4664)
- 61-269 Young, James E.  
 OPTICAL MODEL AND DEUTERON STRIPPING.  
 Nucl. Phys. 23, 40-52 (1961). (LADC-4587)
- 61-270 Young, James E. and Stein, Paul R.  
 REACTIONS IN THE  $A = 4$  SYSTEM. PART III. T(p,n).  
 Ann. Phys. 15, 157-92 (1961). (LADC-4556)
- 61-271 Zachariasen, William H.  
 CRYSTAL-STRUCTURE STUDIES OF PLUTONIUM METAL.  
Metal Plutonium, Coffinberry, Arthur S. and Miner, William  
 N. (eds) (Univ. of Chicago Press, Chicago, Illinois),  
 p. 99-107 (1961). (LADC-NN-76)
- 61-272 Zukas, Eugene G. and Fowler, Clarence M.  
 BEHAVIOR OF IRON AND STEEL UNDER IMPULSIVE LOADING.  
 Met. Soc. Conf. 2, 343-69 (1961). (LADC-4119)
- 61-273 Zukas, Eugene G. and McQueen, Robert G.  
 SHOCK LOADING TO PRODUCE FINE GRAIN STRUCTURE.  
 Trans. Am. Inst. Mining, Met. Petrol. Eng. 221, 412-3  
 (1961). (LADC-4617)

- 61-1A Armstrong, Alice H. and Heckman, Harry H.  
FLUX AND SPECTRUM OF CHARGED PARTICLES IN THE LOWER VAN ALLEN BELT.  
Bull. Am. Phys. Soc. 2, 6, 361 (1961). (LADC-4811)
- 61-2A Asprey, Larned B.  
POLYHALATES CONTAINING FLUORINE.  
Am. Chem. Soc. Abstracts of Papers 140, 26-7N (1961).  
(LADC-4852)
- 61-3A Baker, Don A. and Hammel, Jay E.  
ELECTRIC FIELD MEASUREMENTS IN A ROTATING PLASMA.  
Bull. Am. Phys. Soc. 2, 6, 299 (1961). (LADC-4725)
- 61-4A Baker, George A., Jr.  
LINEAR SYSTEM WHICH APPROACHES A SECOND-ORDER, ORDER-DISORDER PHASE TRANSITION.  
Bull. Am. Phys. Soc. 2, 6, 245 (1961). (LADC-4705)
- 61-5A Bauer, Simon H., Cowperthwaite, Michael, Tsang, Wing, and Duff, Russell.  
COMPOSITIONS OF C/H SYSTEMS AT HIGH TEMPERATURES. SHOCK TUBE DATA AND A THEORETICAL ANALYSIS.  
Am. Chem. Soc. Abstracts of Papers 139, 3-4J (1961).  
(LADC-4919)
- 61-6A Beyer, William A.  
THICK PARTIALLY-PLASTIC TUBE WITH FREE ENDS AND INTERNAL HEAT GENERATION.  
Trans. Am. Nucl. Soc. 4, 13 (1961). (LADC-4759)
- 61-7A Billings, James J. and Minshall, F. Stanley.  
GUN TECHNIQUE FOR LOW PRESSURE SHOCK HYDRODYNAMICS.  
Bull. Am. Phys. Soc. 2, 6, 279 (1961). (LADC-5231)
- 61-8A Boone, Irene U.  
EFFECT OF PREIRRADIATION TREATMENT WITH GLUTATHIONE ON LIFE SPAN AND TUMOR INCIDENCE IN CF<sub>1</sub> MICE.  
Radiation Res. 14, 453 (1961). (LADC-4739)

- 61-9A Brinkley, Forrest W. and Mills, Carroll B.  
 ABSTRACT NO. 9 (COMPUTER CODE ABSTRACTS).  
 Nucl. Sci. Eng. 10, 94 (1961). (LADC-4769)
- 61-10A Bunker, Merle E., Knight, Jere D., Starner, John W., and  
 Dropesky, Bruce J.  
 DECAY OF  $Y^{92}$ .  
 Bull. Am. Phys. Soc. 2, 6, 229 (1961). (LADC-4722)
- 61-11A Burkhardt, Louis C. and Lovberg, Ralph H.  
 PLASMA ELECTRIC FIELD DISTRIBUTION IN A COAXIAL ACCELERATOR.  
 Bull. Am. Phys. Soc. 2, 6, 188 (1961). (LADC-4552)
- 61-12A Cooper, Ralph S.  
 NUCLEAR POWERED LUNAR ROCKETS.  
 Trans. Am. Nucl. Soc. 4, 1, 163-4 (1961). (LADC-4706)
- 61-13A Craig, Paul P., Nagle, Darragh E., Cochran, Donald R. F., and  
 Taylor, R. Dean.  
 RECOIL-FREE GAMMA RAY EMISSION IN A FERROMAGNETIC SEMI-  
 CONDUCTOR.  
 Bull. Am. Phys. Soc. 2, 6, 337 (1961). (LADC-4809)
- 61-14A Dash, Jay G., Taylor, R. Dean, Nagle, Darragh E., Craig, Paul  
 P., and Visscher, William M.  
 NUCLEAR POLARIZATION STUDY BY MEANS OF THE MOSSBAUER EFFECT.  
 Bull. Am. Phys. Soc. 2, 6, 136 (1961). (LADC-4434)
- 61-15A Engle, Leon B. and Fisher, Philip C.  
 DELAYED GAMMAS FROM FISSION, II.  
 Bull. Am. Phys. Soc. 2, 6, 308 (1961). (LADC-4731)
- 61-16A Fisher, Philip C. and Engle, Leon B.  
 DELAYED GAMMAS FROM FISSION, I.  
 Bull. Am. Phys. Soc. 2, 6, 307-8 (1961). (LADC-4730)
- 61-17A Ford, George P. and Leachman, Robert B.  
 DEPENDENCE OF FISSION SYMMETRY ON ANGULAR MOMENTUM.  
 Bull. Am. Phys. Soc., 2, 6, 376 (1961). (LADC-4801)

- 61-18A Ford, Kenneth W., Hughes, Vernon W., and Wills, John G.  
MAGNETIC MOMENTS OF MU-MESONIC ATOMS.  
Bull. Am. Phys. Soc. 2, 6, 268-9 (1961). (LADC-4248)
- 61-19A Glass, Neel W., Peterson, Robert W., and Smith, Ronald K.  
BRANCHING RATIOS IN THE BETA DECAY OF  $N^{12}$  AND  $B^{12}$ .  
Bull. Am. Phys. Soc. 2, 6, 49 (1961). (LADC-4618)
- 61-20A Graves, Glen A. and Streetman, J. Robert.  
RADIATION HEATING IN THE LIQUID HYDROGEN PROPELLANT OF  
NUCLEAR ROCKETS.  
Trans. Am. Nucl. Soc. 4, 1, 165 (1961). (LADC-4798)
- 61-21A Gursky, Martin L. and Stewart, Leona.  
OPTICAL MODEL DESCRIPTION OF THE ELASTIC SCATTERING OF  
8-MEV PROTONS.  
Bull. Am. Phys. Soc. 2, 6, 367 (1961). (LADC-4786)
- 61-22A Hammel, Jay E. and Baker, Don A.  
ENERGY LOSSES AND ULTRAVIOLET RADIATION IN IXION.  
Bull. Am. Phys. Soc. 2, 6, 300 (1961). (LADC-4726)
- 61-23A Hoogterp, James C. and Orndoff, John D.  
CRITICAL MEASUREMENTS FOR THE KIWI-A NUCLEAR PROPULSION TEST  
REACTOR.  
Trans. Am. Nucl. Soc. 4, 1, 55 (1961). (LADC-4757)
- 61-24A Jarmie, Nelson, Silbert, Myron G., and Smith, Darryl B.  
 $N^{14}(tn)O^{16}(p)N^{15}$ , A TWO-STATE NUCLEAR REACTION.  
Bull. Am. Phys. Soc. 2, 6, 237 (1961). (LADC-4600)
- 61-25A Johnson, Karl W. R., Leary, Joseph A., and Kahn, Milton.  
PHASE RELATIONSHIPS IN THE PLUTONIUM(III) CHLORIDE-ALKALINE  
EARTH CHLORIDE BINARY SYSTEMS.  
Am. Chem. Soc. Abstracts of Papers 139, 10L (1961).  
(LADC-4661)

- 61-26A Johnson, Vernon J., Valenta, Milton W., Dougherty, John E.,  
Douglass, Robert M., and Gjevre, John.  
 $\text{Pb}(\text{Sc}_{0.5}\text{Ta}_{0.5})_x\text{M}_{1-x}\text{O}_3$ , FERROELECTRIC SOLID SOLUTIONS POSSESSING LARGE SPONTANEOUS POLARIZATIONS.  
Bull. Am. Phys. Soc. 2, 6, 11 (1961). (LADC-4581)
- 61-27A Journey, Edward T., Carter, Robert E., and Motz, Henry T.  
NEUTRON CAPTURE GAMMA RAYS FROM LEAD.  
Bull. Am. Phys. Soc. 2, 6, 62 (1961). (LADC-4624)
- 61-28A Karr, Hugh J., Knapp, Edward A., Phillips, James A., Stovall, Emory J., Jr., and Tuck, James L.  
PARTICLE TRAPPING IN A MIRROR MACHINE WITH A SPATIALLY ROTATING MAGNETIC FIELD.  
Bull. Am. Phys. Soc. 2, 6, 379 (1961). (LADC-4803)
- 61-29A McCreary, William J. and Lewis, Homer D.  
MEASUREMENT OF PARTICLE SIZE DISTRIBUTION OF HIGH DENSITY SUBSIEVE POWDERS WITH COMMERCIALY AVAILABLE APPARATUS.  
Am. Chem. Soc. Abstracts of Papers 140, 2-3B (1961).  
(LADC-4880)
- 61-30A McInteer, Bertus B. and Reisfeld, Martin J.  
ERRATUM: THERMAL-DIFFUSION-COLUMN SHAPE FACTORS FOR THE LENNARD-JONES (12-6) POTENTIAL.  
J. Chem. Phys. 34, 1844 (1961). (LADC-4169b)
- 61-31A Manley, John H.  
MASS-ANGLE CORRELATION IN NEUTRON FISSION OF  $U^{238}$ .  
Bull. Am. Phys. Soc. 2, 6, 7 (1961). (LADC-4627)
- 61-32A Mather, Joseph W.  
MAGNETIC FIELD ASYMMETRIES IN PULSED MIRROR GEOMETRIES (ORTHOGONAL PINCH).  
Bull. Am. Phys. Soc. 2, 6, 379 (1961). (LADC-4804)
- 61-33A Mayer, James W., Dunlap, Howard L., and Wegner, Harvey E.  
CHARACTERISTICS OF THE p-i-n JUNCTION DETECTORS.  
Bull. Am. Phys. Soc. 2, 6, 313 (1961). (LADC-4720)

- 61-34A Miller, Daniel W., Wegner, Harvey E., and Hall, W. Stanley.  
COULOMB-DISTORTED (d,p) ANGULAR DISTRIBUTIONS AS A FUNCTION  
OF BOMBARDING ENERGY.  
Bull. Am. Phys. Soc. 2, 6, 274 (1961). (LADC-4721)
- 61-35A Northrop, John A. and Hostetler, Robert L.  
MEASUREMENT OF GAMMA-RAY FLUXES IN AND ABOVE THE ATMOSPHERE.  
Bull. Am. Phys. Soc. 2, 6, 52 (1961). (LADC-4622)
- 61-36A Onstott, Edward I.  
MEASUREMENT OF THE SEPARABILITY OF PRASEODYMIUM AND  
NEODYMIUM BY ELECTROLYSIS AT AMALGAM CATHODES IN AQUEOUS  
ELECTROLYTES.  
Am. Chem. Soc. Abstracts of Papers 139, 2B (1961).  
(LADC-4654)
- 61-37A Osher, John E. and Hagerman, Donald C.  
INJECTION AND TRAPPING AT HIGH  $\beta$  IN A PICKET FENCE GEOMETRY.  
Bull. Am. Phys. Soc. 2, 6, 195 (1961). (LADC-4551)
- 61-38A Perkins, Roger B. and Simmons, James E.  
LIQUID HELIUM SCINTILLATOR AS A NEUTRON POLARIZATION  
ANALYZER.  
Bull. Am. Phys. Soc. 2, 6, 368 (1961). (LADC-4792)
- 61-39A Pressman, Maurice, Lindsten, Don C., and Christenson, Conard W.  
EVALUATION OF THE UNITED STATES ARMY MOBILE WATER PURIFICA-  
TION UNIT FOR DECONTAMINATING WATER CONTAMINATED WITH  
PLUTONIUM.  
Am. Chem. Soc. Abstracts of Papers 140, 8W (1961).  
(LADC-4746)
- 61-40A Pretzel, Frank E., Gritton, George V., Rushing, Charles C.,  
Friauf, Robert J., Lewis, W. Burton, and Waldstein, Peter.  
F CENTER FORMATION IN LiH CRYSTALS AT LOW TEMPERATURES.  
Bull. Am. Phys. Soc. 2, 6, 114 (1961). (LADC-4685)
- 61-41A Quinn, Warren E., Little, Edward M., and Stratton, Thomas F.  
ELECTRON TEMPERATURES WITH PREIONIZED SCYLLA.  
Bull. Am. Phys. Soc. 2, 6, 202-3 (1961). (LADC-4544)



- 61-42A Ranken, William A. and Teatum, Eugene T.  
 BEHAVIOR OF A THERMIONIC PLASMA CONVERTER WITH A  $(UC)_{0.3}(ZrC)_{0.7}$  EMITTER.  
 Bull. Am. Phys. Soc. 2, 6, 371 (1961). (LADC-4807)
- 61-43A Reichelt, Walter H., Grover, George, Salmi, Ernest W., and  
 Schafer, William Day.  
 OPERATING CHARACTERISTICS OF A CESIUM DIODE UTILIZING  
 FISSION HEATING OF THE EMITTER.  
 Bull. Am. Phys. Soc. 2, 6, 359 (1961). (LADC-4808)
- 61-44A Ribe, Fred L., Bearden, A. J., Sawyer, George A., and  
 Stratton, Thomas F.  
 X-RAY OBSERVATIONS OF LINE SPECTRA FROM HIGHLY STRIPPED IONS  
 IN A MAGNETICALLY COMPRESSED PLASMA.  
 Bull. Am. Phys. Soc. 2, 6, 310 (1961). (LADC-4724)
- 61-45A Riesenfeld, Werner B., Mjolsness, Raymond C., Stovall, Emory J.,  
 and Ginocchio, Joseph N.  
 TIME DEPENDENCE OF ION AND ELECTRON TEMPERATURES IN SCYLLA.  
 Bull. Am. Phys. Soc. 2, 6, 201 (1961). (LADC-4543)
- 61-46A Sawyer, George A., Bearden, Alan J., Ribe, Fred L., and  
 Stratton, Thomas F.  
 X-RAY OBSERVATIONS OF THE EMISSION CONTINUUM FROM SCYLLA.  
 Bull. Am. Phys. Soc. 2, 6, 310 (1961). (LADC-4723)
- 61-47A Schilling, Fred P. and Berg, Lloyd.  
 CHEMICAL SYNTHESIS OF BATTERY ACTIVE MANGANESE DIOXIDE.  
 Am. Chem. Soc. Abstracts of Papers 139, 7L (1961).  
 (LADC-NN-19)
- 61-48A Schott, Garry L.  
 OBSERVED KINETICS OF DISSOCIATION AND RECOMBINATION OF  
 DIATOMIC MOLECULES.  
 Am. Chem. Soc. Abstracts of Papers 139, 2R (1961).  
 (LADC-4656)

- 61-49A Stooksberry, Robert W., DeJuren, James A., and Wallis, Malcomb.  
MEASUREMENT OF THE  $^{16}\text{O}(n,p)^{16}\text{N}$  RELATIVE CROSS SECTION  
BETWEEN 11 AND 19 MEV.  
Bull. Am. Phys. Soc. 2, 6, 440 (1961). (LADC-NN-85)
- 61-50A Stratton, Thomas F., Little, Edward M., and Quinn, Warren E.  
TIME RESOLVED PLASMA ELECTRON TEMPERATURES  $>100$  EV.  
Bull. Am. Phys. Soc. 2, 6, 202 (1961). (LADC-4542)
- 61-51A Stratton, William R.  
CONCEPTUAL PROMPT POWER EXCURSIONS IN PROPULSION REACTORS.  
Trans. Am. Nucl. Soc. 4, 1, 164 (1961). (LADC-4523)
- 61-52A Streetman, J. Robert and Graves, Glen A.  
GAMMA RAY DOSAGES AT THE PAYLOADS OF NUCLEAR ROCKETS.  
Trans. Am. Nucl. Soc. 4, 1, 164-5 (1961). (LADC-4797)
- 61-53A Trujillo, Theodore T. and Spalding, John F.  
STUDY OF RADIATION-INDUCED AGING: RESPONSE OF IRRADIATED AND  
NON-IRRADIATED MICE TO COLD STRESS.  
Radiation Res. 14, 512 (1961). (LADC-4735)
- 61-54A Wegner, Harvey E.  
ADDITIONAL LONG-RANGE PARTICLES FROM THE SPONTANEOUS  
FISSION OF  $\text{Cf}^{252}$ .  
Bull. Am. Phys. Soc. 2, 6, 307 (1961). (LADC-4728)
- 61-55A Whetstone, Stanley L., Jr., Stein, William E.  
MASS AND ANGULAR DEPENDENCE OF PROMPT NEUTRON EMISSION FROM  
SINGLE FISSION FRAGMENTS.  
Bull. Am. Phys. Soc. 2, 4, 460 (1961). (LADC-4048)
- 61-56A Whetstone, Stanley L., Jr., and Leachman, Robert B.  
TIME-OF-FLIGHT MEASUREMENTS OF CHARGED-PARTICLE-INDUCED  
FISSION.  
Bull. Am. Phys. Soc. 2, 6, 376 (1961). (LADC-4793)

- 62-1 Aamodt, R. Lee, Brown, Leon J., and Nichols, Billy D.  
THERMIONIC EMISSION FROM MOLYBDENUM IN VAPORS OF CESIUM AND  
CESIUM FLUORIDE.  
J. Appl. Phys. 33, 2080-85 (1962). (LADC-5163)
- 62-2 Alei, Mohammed.  
REACTION BETWEEN URANIUM HYDRIDE AND AMMONIA AT ROOM  
TEMPERATURE.  
J. Phys. Chem. 66, 145-8 (1962). (LADC-4842)
- 62-3 Arnold, James R., Metzger, Albert E., Anderson, Ernest C., and  
Van Dilla, Marvin A.  
GAMMA RAYS IN SPACE, RANGER 3.  
J. Geophys. Res. 67, 4878-80 (1962). (LADC-NN-112)
- 62-4 Asprey, Larned B.  
ACTINIDE ELEMENTS.  
McGraw-Hill Yearbook of Science and Technology, (McGraw-  
Hill, New York) p. 83 (1962). (LADC-NN-93)
- 62-5 Asprey, Larned B. and Penneman, Robert A.  
PREPARATION AND PROPERTIES OF AQUEOUS TETRAVALENT AMERICIUM.  
Inorg. Chem. 1, 134-6 (1962). (LADC-5122)
- 62-6 Baker, Don A. and Hammel, Jay E.  
DEMONSTRATION OF CLASSICAL PLASMA BEHAVIOR IN A TRANSVERSE  
MAGNETIC FIELD.  
Phys. Rev. Letters 8, 157-8 (1962). (LADC-5202)

- 62-7 Baker, George A., Jr., Gammel, John L., Hill, Benny J., and Wills, John G.  
EXACT NUMERICAL SOLUTION OF A THREE-BODY GROUND-STATE PROBLEM.  
Phys. Rev. 125, 1754-58 (1962). (LADC-5019)
- 62-8 Ballinger, Edwin, Harris, Payne, Carr, Lee, Hiebert, Richard, and Larkins, John.  
BODY Na<sup>24</sup> ACTIVITY AS A MEASUREMENT OF NEUTRON DOSE.  
Nucleonics 20, 11, 76-85 (1962). (LADC-5055)
- 62-9 Barfield, Walter David, Bacon, Barbara A., and Biedenharn, Lawrence C.  
DEUTERON STRIPPING BY HEAVY NUCLEI.  
Phys. Rev. 125, 964-7 (1962). (LADC-5053)
- 62-10 Battat, Morris E.  
CRITICAL EXPERIMENTS AND NUCLEAR CALCULATIONS - LAMPRE-I.  
Proc. Phys. Fast Intermediate Reactors, 1, 263-70 (1962).  
(LADC-4831)
- 62-11 Bayhurst, Barbara P. and Prestwood, Rene J.  
(n,p) AND (n, $\alpha$ ) EXCITATION FUNCTIONS OF SEVERAL NUCLEI FROM 7.0 TO 19.8 MEV.  
J. Inorg. & Nucl. Chem., 23, 173-85 (1962). (LADC-4687)
- 62-12 Bendt, Philip J.  
LIQUID LEVEL HELIUM THERMOMETER.  
Rev. Sci. Instr. 33, 759-61 (1962). (LADC-5292)
- 62-13 Bendt, Philip J.  
SUPERFLUID HELIUM CRITICAL VELOCITIES IN A ROTATING ANNULUS.  
Phys. Rev. 127, 1441-45 (1962). (LADC-5275)
- 62-14 Bidwell, Richard M., Ferguson, William E., Burwell, Calvin C., Hammond, R. Philip, Davidson, Keith V., Wykoff, Walter R., and Anderson, Robert W.  
DEVELOPMENT OF HIGH PURITY TANTALUM AND ALLOYS FOR LIQUID PLUTONIUM CONTAINMENT IN LAMPRE-I.  
Nucl. Sci. Eng. 14, 109-22 (1962). (LADC-4969)

- 62-15 Bidwell, Richard M.  
FISSION PRODUCT BEHAVIOR IN DIRECT-CONTACT CORE LIQUID-METAL-FUELED REACTORS.  
Proc. Nucl. Reactor Chem. Conf., 2nd, October 10-12, 1961, Gatlinburg, Tennessee, p. 216-7 (1962). (LADC-4955)
- 62-16 Blackburn, James H. and Seely, Leslie B.  
SOURCE OF THE LIGHT RECORDED IN PHOTOGRAPHS OF SHOCKED GRANULAR PRESSINGS.  
Nature 194, 370-1 (1962). (LADC-5273)
- 62-17 Blair, Allen G. and Wegner, Harvey E.  
EXPERIMENTAL STUDY AND DISTORTED-WAVE PREDICTIONS FOR THE ( $\text{He}^3\alpha$ ) REACTION ON Fe ISOTOPES.  
Phys. Rev. 127, 1233-45 (1962). Also: Bull. Am. Phys. Soc. 2, 7, 82 (1962). (LADC-5153)
- 62-18 Blair, Allen G. and Wegner, Harvey E.  
EXPERIMENTAL STUDY OF THE ( $\text{He}^3, t$ ) REACTION.  
Phys. Rev. Letters 2, 168-9 (1962). (LADC-5392)
- 62-19 Blais, Normand C. and Bunker, Don L.  
MONTE CARLO CALCULATIONS. II. THE REACTIONS OF ALKALI ATOMS WITH METHYL IODIDE.  
J. Chem. Phys. 37, 2713-20 (1962). (LADC-5349)
- 62-20 Blatz, Laurence A.  
USE OF A CATION-EXCHANGE RESIN TO STUDY THE CEROUS AND SULFATE ION COMPLEXES.  
J. Phys. Chem. 66, 160-4 (1962). (LADC-4433)
- 62-21 Boone, Irene U., Rogers, Betty S., and Williams, D. Lloyd.  
TOXICITY, METABOLISM, AND TISSUE DISTRIBUTION OF CARBON<sup>14</sup>-LABELED N, N', N''-TRIEETHYLENETHIOPHOSPHORAMIDE (THIO-TEPA) IN RATS.  
Toxicol. Appl. Pharmacol. 4, 344-53 (1963). (LADC-5036)
- 62-22 Boyer, Keith.  
KIWI DEVELOPMENTAL TESTING.  
Astronautics 7, 12, 58-62 (1962). (LADC-5536)

- 62-23 Britt, Harold C., Wegner, Harvey E., and Gursky, Judith.  
ENERGETICS OF CHARGED PARTICLE INDUCED FISSION REACTIONS.  
Trans. Am. Nucl. Soc. 5, 1, 22-3 (1962). Also: Phys. Rev.  
Letters 8, 98-100 (1962). (LADC-5214)
- 62-24 Bronson, John C., Edeskuty, Frederick J., Fretwell, James H.,  
Hammel, Edward F., Keller, William E., Meier, Karl L., Schuch,  
Adam F., and Willis, Walter L.  
PROBLEMS IN COOL-DOWN OF CRYOGENIC SYSTEMS.  
Advan. Cryog. Eng. 7, 198-205 (1962). (LADC-4856)
- 62-25 Brout, Robert H.  
FREQUENCY MODULATED MOSSBAUER EFFECT.  
Proc. Intern. Conf. Mossbauer Effect, 2nd, Saclay, France,  
September 13-15, 1961, p. 66-9 (1962). (LADC-4450)
- 62-26 Brout, Robert and Visscher, William M.  
SUGGESTED EXPERIMENT ON APPROXIMATE LOCALIZED MODES IN  
CRYSTALS.  
Phys. Rev. Letters 9, 54-5 (1962). (LADC-5319)
- 62-27 Brown, Edward A.  
LOGARITHMIC POWER CONTROL IN KIWI-A REACTORS.  
I.R.E. Trans. Nucl. Sci. 9, 1, 145-50 (1962). (LADC-5146)
- 62-28 Bubernak, Joseph, Meadows, Jesse W. T., Lew, Marion, and Matlack,  
George M.  
DETERMINATION OF BURNUP IN PLUTONIUM REACTOR FUELS.  
Proc. Anal. Chem. Nucl. Reactor Tech., 5th, Gatlinburg,  
Tennessee, 1961, p. 177-83 (1962). (LADC-4965)(TID-7629)
- 62-29 Bubernak, Joseph, Lew, Marion S., and Matlack, George M.  
POINT SOURCE TECHNIQUE FOR GAMMA RAY ABSORPTION STUDIES.  
Anal. Chem. 34, 585-6 (1962). (LADC-5145)
- 62-30 Bunker, Don L.  
MONTE CARLO CALCULATION OF TRIATOMIC DISSOCIATION RATES. I.  
N<sub>2</sub>O AND O<sub>3</sub>.  
J. Chem. Phys. 37, 393-403 (1962). (LADC-5147b)

- 62-31 Bunker, Don L.  
 VIBRATIONALLY EXCITED PRODUCTS OF BIOMOLECULAR EXCHANGE REACTIONS.  
 Nature 194, 1277-78 (1962). (LADC-5326)
- 62-32 Bunker, Merle E., Dropesky, Bruce J., Knight, Jere D., and Starner, John W.  
 DECAY OF  $Y^{92}$  AND  $Nb^{92}$ .  
 Phys. Rev. 127, 844-54 (1962). (LADC-5293)
- 62-33 Burkhardt, Louis C. and Lovberg, Ralph H.  
 CURRENT SHEET IN A COAXIAL PLASMA GUN.  
 Phys. Fluids 5, 341-7 (1962). (LADC-5021)
- 62-34 Bussard, Robert W.  
 ADVANCED PROPULSION.  
Space Flight Report to the Nation, Grey, Jerry and Grey, Vivian (eds)(Basic Books, New York), p. 75-89 (1962).  
 (LADC-5007)
- 62-35 Bussard, Robert W.  
 NUCLEAR FISSION ROCKETS: PROBLEMS, PROGRESS AND PROMISE.  
 Seminar on Astronautical Propulsion, Milan, 1960.  
Advances in Astronautical Propulsion, Casci, Corrodo (ed) (Pergamon Press, New York), p. 165-220 (1962).  
 (LADC-4516)
- 62-36 Bussard, Robert W.  
 SOME CONSIDERATIONS OF DYNAMIC BEHAVIOR IN THE PLASMA THERMOCOUPLE.  
 J. Appl. Phys. 33, 606-13 (1962). (LADC-4672)
- 62-37 Bussard, Robert W.  
 SOME TOPICS IN NUCLEAR ROCKET OPTIMIZATION.  
Optimization Techniques with Applications to Aerospace Systems, (Academic Press, New York) p. 389-446 (1962).  
 (LADC-NN-101)

- 62-38 Carlson, Bengt.  
FOREWORD to book Planning a Computer System. Project Stretch,  
Buchholz, Werner (ed) (McGraw-Hill, New York), p. v-vi (1962).  
(LADC-NN-54)
- 62-39 Chick, Helen J.  
SERVICES PROVIDED BY THE LOS ALAMOS SCIENTIFIC LABORATORY  
LIBRARIES.  
Proc. Conf. Literature of Nucl. Sci., Its Management and  
Use, September 11-13, 1962, p. 325-28 (1962). (LADC-5461)  
(TID-7647)
- 62-40 Christenson, Conard W. and Thomas, Robert G.  
MOVEMENT OF PLUTONIUM THROUGH LOS ALAMOS TUFF.  
Proc. 2nd AEC meeting Ground Disposal of Radioactive Wastes,  
September 26-29, 1961, p. 248-81 (March 1962).  
(LADC-5058) (TID-7628)
- 62-41 Clifton, David G.  
CALCULATIONS OF THE COEFFICIENT OF THERMAL CONDUCTIVITY FOR  
DISSOCIATING HYDROGEN.  
J. Chem. Phys. 36, 472-7 (1962). (LADC-4818)
- 62-42 Cochran, Donald R. F. and Knight, Jere D.  
EXCITATION FUNCTIONS OF SOME REACTIONS OF 6- TO 24-MEV He<sup>3</sup>  
IONS WITH CARBON AND ALUMINUM.  
Phys. Rev. 128, 1281-86 (1962). (LADC-5382)
- 62-43 Cooper, Ralph S.  
CHEMICAL AND NUCLEAR ROCKET PROPULSION.  
Challenges of Space, Odishaw, Hugh (ed) (University of  
Chicago Press), p. 319-35 (1962). (LADC-NN-113)
- 62-44 Cooper, Ralph.  
FAST REACTOR ROCKET ENGINES - CRITICALITY.  
Nucl. Sci. Eng. 13, 355-65 (1962). (LADC-5187)
- 62-45 Cooper, Ralph S.  
PERFORMANCE OF OPTIMIZED MULTISTAGE ROCKETS.  
J. Aerospace Sci. 29, 1339-43 (1962). (LADC-5284)



- 62-46 Cooper, Ralph S.  
ROCKET PROPULSION.  
Bull. At. Scientists 18, 3, 22-8 (1962). (LADC-NN-58)
- 62-47 Cowan, George A.  
GENERAL SURVEY ON FISSION NEUTRON PULSES: REACTORS AND  
EXPLOSIONS.  
Neutron Time-of-Flight Methods, Proc. of a Symp., Spaepen,  
J. (ed) (Brussels, EURATOM), p. 367-73 (1962).  
(LADC-4939)
- 62-48 Cowan, Robert E., Stoddard, Stephen D., and Nuckolls, Donald E.  
SLIP CASTING CALCIUM OXIDE.  
Am. Ceram. Soc. Bull. 41, 102-4 (1962). (LADC-3930)
- 62-49 Cox, Arthur N. and Stewart, John N.  
EFFECTS OF BOUND-BOUND ABSORPTION ON STELLAR OPACITIES.  
Astron. J. 67, 113 (1962). (LADC-5156)
- 62-50 Cox, Summers H., Murray, Arthur, and Boone, Irene U.  
METABOLISM OF TRITIUM-LABELED PYRIDOXINE IN RATS.  
Proc. Soc. Exp. Biol. Med. 109, 242-4 (1962). (LADC-5105)
- 62-51 Craig, Paul P., Steyert, William A., Jr., and Taylor, R. Dean.  
HIGH VACUUM BRASS-TO-ALUMINUM SEAL FOR USE AT CRYOGENIC  
TEMPERATURES.  
Rev. Sci. Instr. 33, 869-70 (1962). (LADC-5317)
- 62-52 Craig, Paul P., Erickson, Nils, Nagle, Darragh E., and Taylor,  
R. Dean.  
MOSSBAUER EFFECT OF Fe-57 IN PYROGRAPHITE: SOME PRELIMINARY  
RESULTS.  
Proc. Intern. Conf. Mossbauer Effect, 2nd, Saclay, France,  
September 13-15, 1961, p. 280 (1962). (LADC-5169)
- 62-53 Craig, Paul P., Nagle, Darragh E., Steyert, William A., Jr.,  
and Taylor, R. Dean.  
PARAMAGNETISM OF Fe IMPURITIES IN TRANSITION METALS.  
Phys. Rev. Letters 9, 12-3 (1962). (LADC-5337)

- 62-54 Cromer, Don T. and Larson, Allen C.  
CRYSTAL STRUCTURE OF  $\text{KCu}_2(\text{CN})_3 \cdot \text{H}_2\text{O}$ .  
Acta Cryst. 15, 397-403 (1962) (LADC-4215)
- 62-55 Davis, William C.  
HIGH-SPEED ROTATING-MIRROR FRAMING CAMERA.  
Appl. Opt. 1, 407-9 (1962). (LADC-5013)
- 62-56 Deal, James B.  
GAMMA ASSAY SYSTEM.  
Proc. Hot Lab. Equip. Conf., 10th, Washington, D. C.,  
November 26-28, 1962, p. 336-7 (1962). (LADC-5421)
- 62-57 Deal, William E.  
DYNAMIC HIGH-PRESSURE TECHNIQUES.  
Modern Very High Pressure Techniques, Wentorf, R. H. (ed)  
(Butterworth, Washington, D. C.), p. 200-27 (1962).  
(LADC-4561)
- 62-58 Diven, Ben C. and Hopkins, John C.  
CAPTURE TO FISSION RATIOS FOR FAST NEUTRONS IN  $\text{U}^{233}$ ,  $\text{U}^{235}$ ,  
AND  $\text{Pu}^{239}$ .  
Neutron Time-of-Flight Methods, Proc. of a Symp, Spaepen,  
J. (ed) (Brussels, EURATOM), p. 407-12 (1962).  
(LADC-4583)
- 62-59 Diven, Ben C. and Hopkins, John C.  
NUMBERS OF PROMPT NEUTRONS PER FISSION FOR  $\text{U}^{233}$ ,  $\text{U}^{235}$ ,  $\text{Pu}^{239}$ ,  
AND  $\text{Cf}^{252}$ .  
Proc. Phys. Fast Intermediate Reactors 1, 149-54 (1962).  
(LADC-4830)
- 62-60 Douglass, Robert M.  
CRYSTALLOGRAPHIC DATA FOR ORTHORHOMBIC URANIUM(IV)  
METAPHOSPHATE AND PLUTONIUM(IV) METAPHOSPHATE.  
Acta Cryst. 15, 505-6 (1962). (LADC-5032)

- 62-61 Dove, Richard C., Brasier, Robert I., and Baker, William E.  
SELECTION OF GAGES FOR STRAIN MEASUREMENT AT INTERIOR POINTS.  
Exp. Mech. 2, 6, 189-90 (1962). (LADC-NN-109)
- 62-62 Dreicer, Harry, Karr, Hugh J., Knapp, Edward A., Phillips,  
James A., Stovall, Emory J., and Tuck, James L.  
CYCLOTRON RESONANCE IN THE STATIC MAGNETIC FIELD OF A HELIX.  
Proc. Conf. Plasma Phys. Controlled Nucl. Fusion Res.,  
Salzburg, 1961, pt. 1, p. 299-312 (1962). (LADC-4991)
- 62-63 Dreicer, Harry and Mjolsness, Raymond.  
DRIFT INSTABILITIES DUE TO COLLISIONAL RELAXATION OF HIGH-  
ENERGY PARTICLES.  
Proc. Intern. Conf. Ionization Phenomena Gases, 5th,  
Munich, 1961, 2, 1689-98 (1962). (LADC-4899)
- 62-64 Dreicer, Harry and Mjolsness, Raymond.  
FORMATION OF DRIFT INSTABILITIES BY COLLISIONAL RELAXATION  
OF HIGH-ENERGY PARTICLES.  
Phys. Fluids 5, 1531-44 (1962). (LADC-5072)
- 62-65 Driesner, Allen R., Kempter, Charles P., Landahl, Charles E.,  
Linder, Charles A., and Springer, Thomas E.  
HIGH TEMPERATURE THERMOCOUPLES IN THE ROVER PROGRAM.  
I.R.E. Trans. Nucl. Sci. 9, 247-52 (1962). (LADC-4987)
- 62-66 Duff, Russell E., Harlow, Francis H., and Hirt, Cyril W.  
EFFECTS OF DIFFUSION ON INTERFACE INSTABILITY BETWEEN GASES.  
Phys. Fluids 5, 417-25 (1962). (LADC-5085)
- 62-67 Duff, Russell E. and Bauer, Simon H.  
EQUILIBRIUM COMPOSITION OF THE C/H SYSTEM AT ELEVATED  
TEMPERATURES.  
J. Chem. Phys. 36, 1754-67 (1962). (LADC-4919 and  
LA-2556)
- 62-68 Duff, Russell E.  
SLIP LINE INSTABILITY.  
Symp. Appl. Math., AMS, 13, 77-8 (1962). (LADC-4615)

- 62-69 Edeskuty, Frederick J. and Hammel, Edward F.  
CRYOGENIC ENGINEERING IN NUCLEAR ROCKETRY.  
Cryogenics 2, 193-203 (1962). (LADC-5237)
- 62-70 Ellinger, Finley H., Land, Cletis C., and Miner, William N.  
SOLUBILITY LIMITS OF ALUMINUM IN DELTA PLUTONIUM AND SOME  
REVISIONS OF THE PLUTONIUM-ALUMINUM PHASE DIAGRAM.  
J. Nucl. Mater. 5, 165-72 (1962). (LADC-4273)
- 62-71 Elliott, Dana E., Stokes, James L., and Tenney, Gerold H.  
RADIOGRAPHIC BEHAVIOR OF GRAPHITE AND BERYLLIUM.  
Nondestructive Testing 20, 161-6 (1962). (LADC-4837)
- 62-72 Elliott, Reed O., Olsen, Clayton E., and Louie, James.  
ELECTRICAL BEHAVIOR BELOW 300°K OF PLUTONIUM-RICH, DELTA-  
PHASE SOLID SOLUTION ALLOYS CONTAINING CERIUM, ALUMINUM AND  
ZINC.  
Phys. Chem. Solids 23, 1029-44 (1962). (LADC-5266)
- 62-73 Erpenbeck, Jerome J.  
STABILITY OF STEADY-STATE EQUILIBRIUM DETONATIONS.  
Phys. Fluids 5, 604-14 (1962). (LADC-5035)
- 62-74 Erpenbeck, Jerome J.  
STABILITY OF STEP SHOCKS.  
Phys. Fluids 5, 1181-87 (1962). (LADC-5264)
- 62-75 Erpenbeck, Jerome J.  
STRUCTURE AND STABILITY OF THE SQUARE-WAVE DETONATION.  
Intern. Symp. Combust., 9th, Ithaca, New York. Preprints  
of Discussion on Detonations (Combustion Institute), 20 p.  
(1962). (LADC-5311)
- 62-76 Evans, Martha W., Harlow, Francis H., and Melxner, Billy D.  
INTERACTION OF SHOCK OR RAREFACTION WITH A BUBBLE.  
Phys. Fluids 5, 651-6 (1962). (LADC-5136)

- 62-77 Flynn, Edward R. and Bendt, Philip J.  
n-p DIFFERENTIAL SCATTERING CROSS SECTION AT 22.5 MEV.  
Phys. Rev. 128, 1268-70 (1962). (LADC-5092)
- 62-78 Flynn, Edward R. and Bendt, Philip J.  
LIQUID HYDROGEN BUBBLE CHAMBER FOR LOW ENERGY NUCLEAR PHYSICS.  
Rev. Sci. Instr. 33, 223-9 (1962). (LADC-5125)
- 62-79 Foreman, Harry and Roberts, Mary B.  
DETERMINATION OF <sup>90</sup>STRONTIUM IN BONE.  
Talanta 9, 559-62 (1962). (LADC-4930)
- 62-80 Foreman, Harry.  
EFFECT OF DIETHYLENETRIAMINEPENTAACETIC ACID (DTPA) ON  
ACCELERATION OF EXCRETION OF ACTINIDE ELEMENTS.  
Health Phys. 8, 735-7 (1962). (LADC-5672)
- 62-81 Foreman, Harry.  
STUDIES ON THE MECHANISM OF PLUTONIUM UPTAKE BY BONE.  
Health Phys. 8, 713-6 (1962). (LADC-5671)
- 62-82 Foreman, Harry.  
TOXICOLOGY: INORGANIC.  
Ann. Rev. Pharmacol. 2, 341-62 (1962). (LADC-5073)
- 62-83 Foreman, Harry.  
TREATMENT OF INJURY FROM RADIOACTIVE CONTAMINATION OF THE  
SKIN AND SUBCUTANEOUS AREAS.  
J. Occupational Med. 4, 426-30 (1962). (LADC-4814)
- 62-84 Fowler, Clarence M., Caird, Robert S., Garn, Wray B., and  
Thomson, David B.  
FLUX CONCENTRATION BY IMPLOSION.  
Proc. Intern. Conf. High Magnetic Fields, MIT, November  
1-4, 1961, p. 269-76 (1962). (LADC-4922)

- 62-85 Frauenfelder, Hans, Nagle, Darragh E., Taylor, R. Dean, Cochran, Donald R. F., and Visscher, William M.  
ELLIPTICAL POLARIZATION OF Fe<sup>57</sup> GAMMA RAYS.  
Phys. Rev. 126, 1065-75 (1962). (LADC-5119)
- 62-86 Fries, R. Jay.  
VAPORIZATION BEHAVIOR OF NIOBIUM CARBIDE.  
J. Chem. Phys. 37, 320-7 (1962). (LADC-5094)
- 62-87 Froman, Darol K.  
EARTH AS A MAN-CONTROLLED SPACE SHIP.  
Phys. Today 15, 7, 19-23 (1962). (LADC-5314)
- 62-88 Furchner, John E. and Richmond, Chester R.  
EFFECT OF DIETARY ZINC ON THE ABSORPTION OF ORALLY ADMINISTERED Zn<sup>65</sup>.  
Health Phys. 8, 35-40 (1962). (LADC-4742)
- 62-89 Furchner, John E. and Richmond, Chester R.  
EFFECT OF STABLE CESIUM ON THE RETENTION OF CESIUM<sup>137</sup> BY RATS.  
Proc. Soc. Exp. Biol. Med. 110, 185-7 (1962).  
(LADC-5289)
- 62-90 Giorgi, Angelo L., Szklarz, Eugene G., Storms, Edmund K., Bowman, Allen L., and Matthias, Bernd T.  
EFFECT OF COMPOSITION ON THE SUPERCONDUCTING TRANSITION TEMPERATURE OF TANTALUM CARBIDE AND NIOBIUM CARBIDE.  
Phys. Rev. 125, 837-8 (1962). (LADC-5023)
- 62-91 Goldstein, Louis and Mills, Robert L.  
ANOMALOUS LIQUID-SOLID TRANSFORMATION OF HELIUM THREE.  
Phys. Rev. 128, 2479-86 (1962). (LADC-5364)
- 62-92 Goldstein, Louis.  
THERMAL EXCITATIONS IN SOLID He<sup>4</sup>.  
Phys. Rev. 128, 1520-30 (1962). (LADC-5306)

- 62-93 Griffin, James J.  
FISSION FRAGMENT ANGULAR DISTRIBUTION BY EXACT POWER SERIES.  
Phys. Rev. 127, 1248-52 (1962). (LADC-5301)
- 62-94 Grilly, Edward R. and Mills, Robert L.  
PVT RELATIONS IN He<sup>4</sup> NEAR THE MELTING CURVE AND THE  $\lambda$ -LINE.  
Ann. Phys. 18, 250-63 (1962). (LADC-5193)
- 62-95 Grilly, Edward R.  
VAPOUR PRESSURE OF SOLID AND LIQUID NEON.  
Cryogenics 2, 226-9 (1962). (LADC-5042)
- 62-96 Gschneidner, Karl A., Elliott, Reed O., and McDonald, Robert R.  
EFFECTS OF ALLOYING ADDITIONS ON THE  $\gamma \rightleftharpoons \alpha$  TRANSFORMATION  
OF CERIUM - PART I. PURE CERIUM.  
Phys. Chem. Solids 23, 555-66 (1962). (LADC-5057)
- 62-97 Gschneidner, Karl A., Jr., Elliott, Reed O., and McDonald,  
Robert R.  
EFFECTS OF ALLOYING ADDITIONS ON THE ALPHA  $\rightleftharpoons$  GAMMA TRANSFOR-  
MATION OF CERIUM. PART II. EFFECTS OF SCANDIUM, THORIUM, AND  
PLUTONIUM ADDITIONS.  
Phys. Chem. Solids 23, 1191-99 (1962). (LADC-5282)
- 62-98 Gschneidner, Karl A., Jr., Elliott, Reed O., and McDonald,  
Robert R.  
EFFECTS OF ALLOYING ADDITIONS ON THE  $\alpha \rightleftharpoons \gamma$  TRANSFORMATION  
OF CERIUM. PART III. EFFECTS OF YTTRIUM AND RARE EARTH  
ADDITIONS.  
Phys. Chem. Solids 23, 1201-08 (1962). (LADC-5283)
- 62-99 Gschneidner, Karl A., Jr., Elliott, Reed O., and Prince,  
Margaret Y.  
LATTICE SPACINGS OF SOME CERIUM-RICH, CERIUM-RARE EARTH  
ALLOYS.  
Rare Earth Research, Nauchman, Joseph F. and Lundin, Charles  
E. (eds)(Gordon and Breach, New York), p. 71-86 (1962).  
(LADC-4897)

- 62-100 Gschneidner, Karl A. and Vineyard, George H.  
ON DEPARTURES FROM VEGARD'S LAW.  
J. Appl. Phys. 33, 344-50 (1962). (LADC-5406)
- 62-101 Gschneidner, Karl A., Jr.  
SOME COMMENTS ON THE YTTERBIUM-THORIUM SYSTEM.  
J. Less-Common Metals 4, 107-8 (1962). (LADC-5048)
- 62-102 Gutierrez, Conrado P., Mosley, John R., and Wallace, Terry C.  
ELECTROPHORETIC DEPOSITION: A VERSATILE COATING METHOD.  
J. Electrochem. Soc. 109, 923-7 (1962). (LADC-4381)
- 62-103 Hagerman, Donald C.  
CUSPED GEOMETRIES.  
Proc. Intern. Conf. High Magnetic Fields, MIT, November  
1-4, 1961, p. 681-7 (1962). (LADC-4944)
- 62-104 Hagerman, Donald C.  
SOME EXPERIMENTAL STUDIES OF PLASMA INJECTED INTO A CUSPED  
MAGNETIC FIELD.  
Proc. Conf. Plasma Phys. Controlled Nucl. Fusion Res.,  
Salzburg, 1961, pt. 1, p. 75-9 (1962). (LADC-4825)
- 62-105 Hakkila, E. Arnold, Waterbury, Glenn R., and Nelson, Gilbert B.  
SPECTROPHOTOMETRIC DETERMINATION OF MICROGRAM QUANTITIES OF  
TUNGSTEN IN TANTALUM USING THIOCYANATE.  
Proc. Anal. Chem. Nucl. Reactor Tech., 5th, Gatlinburg,  
Tennessee, 1961, p. 55-61 (1962). (LADC-4958)(TID-7629)
- 62-106 Hakkila, E. Arnold and Waterbury, Glenn R.  
X-RAY ABSORPTION EDGE DETERMINATION OF COBALT IN COMPLEX  
MIXTURES.  
Advan. X-Ray Anal. 5, 379-88 (1962). (LADC-4832)
- 62-107 Hammel, Edward F., Keller, William E., and Craig, Paul P.  
CRYOGENICS.  
Ann. Rev. Phys. Chem. 13, 281-304 (1962). (LADC-5199)



- 62-108 Hammond, R. Philip.  
LARGE REACTORS MAY DISTILL SEA WATER ECONOMICALLY.  
Nucleonics 20, 12, 45-9 (1962). (LADC-5417)
- 62-109 Hanks, Gale S., Kirby, Robert S., and Taub, James M.  
FABRICATION OF TANTALUM FUEL CONTAINERS FOR THE LAMPRE-I  
MOLTEN PLUTONIUM REACTOR.  
Nucl. Sci. Eng. 14, 135-43 (1962). (LADC-4984)
- 62-110 Hansbury, Elizabeth, Langham, Juliamarie, and Ott, Donald G.  
PHOTOGRAPHIC METHOD FOR RECORDING CHROMATOGRAMS.  
J. Chromatog. 9, 393-5 (1962). (LADC-5423)
- 62-111 Hansen, Gordon E.  
STATUS OF COMPUTATIONAL AND EXPERIMENTAL CORRELATIONS FOR  
LOS ALAMOS FAST-NEUTRON CRITICAL ASSEMBLIES.  
Proc. Phys. Fast Intermediate Reactors 1, 445-55 (1962).  
(LADC-4834)
- 62-112 Heckman, Harry H. and Armstrong, Alice H.  
ENERGY SPECTRUM OF GEOMAGNETICALLY TRAPPED PROTONS.  
J. Geophys. Res. 67, 1255-62 (1962). (LADC-4811)
- 62-113 Henshall, James B. and Singer, Sidney.  
KIWI-BIA TEST FACILITIES AND PROCEDURES.  
I.R.E. Trans. Nucl. Sci. 9, 1, 158-61 (1962). (LADC-4949)
- 62-114 Hess, George K., Jr., Demuth, Howard B., Brown, Edward A., and  
Mohler, Ronald R.  
CONTROL SYSTEM FOR KIWI-A NUCLEAR REACTORS.  
I.R.E. Trans. Nucl. Sci. 9, 1, 134-44 (1962). (LADC-4643)
- 62-115 Hiebert, Richard D. and Gallagher, James D.  
ELECTRONICS FOR WHOLE-BODY LIQUID SCINTILLATION COUNTERS.  
I.R.E. Trans. Bio-Med Electron. 9, 1, 54-61 (1962).  
(LADC-5024)

- 62-116 Hockett, John E.  
RECENT RESEARCH IN METAL FORMING.  
Appl. Mech. Rev. 15, 157-66 (1962). (LADC-5213)
- 62-117 Hopkins, John C. and Diven, Ben C.  
MEASUREMENTS OF  $\alpha$  FOR U<sup>233</sup>, U<sup>235</sup>, AND Pu<sup>239</sup> FOR MONOENERGETIC NEUTRONS.  
Proc. Phys. Fast Intermediate Reactors 1, 111-7 (1962).  
(LADC-4829)
- 62-118 Hopkins, John C. and Diven, Ben C.  
NEUTRON CAPTURE TO FISSION RATIOS IN U<sup>233</sup>, U<sup>235</sup>, Pu<sup>233</sup>.  
Nucl. Sci. Eng. 12, 169-77 (1962). (LADC-4583)
- 62-119 Huber, Elmer J., Jr., and Holley, Charles E., Jr.  
COMBUSTION IN A BOMB OF METALS.  
Exp. Thermochem. 2, 77-94 (1962), Skinner, H. A. (ed)  
(Interscience, New York). (LADC-3782)
- 62-120 Huber, Elmer J., Jr., and Holley, Charles E., Jr.  
THERMODYNAMIC PROPERTIES OF THE ACTINIDE CARBIDES INCLUDING  
NEW MEASUREMENTS OF THE HEATS OF FORMATION OF SOME THORIUM,  
URANIUM AND PLUTONIUM CARBIDES.  
Proc. Thermodyn. Nucl. Mater., Vienna, May 21-25, 1962,  
p. 581-99 (1962). (LADC-5176)
- 62-121 Humason, Gretchen L.  
ANIMAL TISSUE TECHNIQUES, (Freeman) 468 p. (1962).  
(LADC-NN-196)
- 62-122 Jahoda, Franz, Ribe, Fred L., Sawyer, George A., and Stratton,  
Thomas F.  
X-RAY SPECTROSCOPIC MEASUREMENTS OF HIGH-TEMPERATURE PLASMA.  
Proc. Intern. Conf. Ionization Phenomena Gases, 5th,  
Munich, 1961, 2, 1987-99 (1962). (LADC-4791)
- 62-123 Johnston, Robert R.  
NUCLEON-NUCLEUS SECOND-ORDER OPTICAL POTENTIAL.  
Nucl. Phys. 36, 368-85 (1962). (LADC-5224)

- 62-124 Jones, Llewellyn H.  
 CYANIDE STRETCHING VIBRATIONS OF  $[\text{Co}(\text{CN})_6]^{-3}$  ION DISSOLVED  
 IN SOLID KCl OR NaCl.  
 J. Chem. Phys. 36, 1400-01 (1962). (LADC-5149)
- 62-125 Jones, Llewellyn H.  
 MOLECULAR-ORBITAL APPROACH TO THE DEVELOPMENT OF VIBRATIONAL  
 POTENTIAL FUNCTIONS: CO FORCE CONSTANT AND STRETCH-STRETCH  
 INTERACTION CONSTANTS FOR METAL HEXACARBONYLS.  
 J. Mol. Spectr. 9, 130-7 (1962). (LADC-5216)
- 62-126 Jones, Llewellyn H.  
 RESONANCE INTERACTION VALENCE FORCE FIELD FOR OCTAHEDRAL  
 $\text{M}(\text{XY})_6$  MOLECULES.  
 J. Mol. Spectr. 8, 105-20 (1962). (LADC-4869)
- 62-127 Jones, Llewellyn H.  
 VIBRATIONAL SPECTRUM AND FORCE CONSTANTS FOR MOLYBDENUM  
 HEXACARBONYL.  
 J. Chem. Phys. 36, 2375-81 (1962). (LADC-5045)
- 62-128 Jones, Llewellyn H.  
 VIBRATIONAL SPECTRUM AND STRUCTURE OF SINGLE CRYSTALS OF  
 $\text{K}_3\text{Co}(\text{CN})_6$ .  
 J. Chem. Phys. 36, 1209-15 (1962). (LADC-4974)
- 62-129 Jones, Wesley M. and Davidson, Norman.  
 THERMAL DECOMPOSITION OF OZONE IN A SHOCK TUBE.  
 J. Am. Chem. Soc. 84, 2868-78 (1962). (LADC-5162)
- 62-130 Kaskan, Walter E. and Schott, Garry L.  
 REQUIREMENTS IMPOSED BY STOICHIOMETRY IN DISSOCIATION -  
 RECOMBINATION REACTIONS.  
 Combust. Flame 6, 73-5 (1962). (LADC-5141)
- 62-131 Keepin, George Robert.  
 NEUTRON DATA FOR REACTOR KINETICS.  
 Nucleonics 20, 8, 150-6 (1962). (LADC-5355)

- 62-132 Kemp, Edwin L.  
ELEMENTS OF ENERGY STORAGE CAPACITOR BANKS.  
Elec. Eng. 81, 681-5 (1962). (LADC-5353)
- 62-133 Kempter, Charles P.  
COMMENT ON "RHENIUM-TUNGSTEN-CARBON INTERACTIONS" BY R. F.  
HAVELL AND Y. BASKIN.  
J. Electrochem. Soc. 109, 550-1 (1962). (LADC-NN-4)
- 62-134 Kempter, Charles P., Driesner, Allen, Landahl, Charles E.,  
Linder, Charles A., and Springer, Thomas E.  
HIGH TEMPERATURE W/W-25 RE THERMOCOUPLES.  
Instr. Control Systems 35, 5, 105-8 (1962). (LADC-4987)
- 62-135 Kempter, Charles P.  
HYDROLYSIS PROPERTIES OF URANIUM MONOCARBIDE AND DICARBIDE.  
J. Less-Common Metals 4, 410-25 (1962). (LADC-5259)
- 62-136 Kempter, Charles P.  
OBSERVATIONS ON THE HYDROLYSIS PRODUCT DISTRIBUTION FOR SOME  
INNER TRANSITION METAL CARBIDES.  
Inorg. Chem. 1, 957 (1962). (LADC-5409)
- 62-137 Kempter, Charles P. and Krikorian, Nerses H.  
SOME PROPERTIES OF THORIUM MONOCARBIDE AND DICARBIDE.  
J. Less-Common Metals 4, 244-51 (1962). (LADC-5099)
- 62-138 Kerr, Vernon N., Hayes, F. Newton, and Anderson, Ernest C.  
PARAMETERS AFFECTING THE PERFORMANCE OF LARGE LIQUID  
SCINTILLATION COUNTERS.  
Rev. Sci. Instr. 33, 100-2 (1962). (LADC-5010)
- 62-139 Kerr, Vernon N., Williams, D. Lloyd, Hansbury, Elizabeth, and  
Hayes, Francis Newton.  
RADIOCARBON IN PLANT PRODUCTS: GEOGRAPHY, SPECIES, AND TIME.  
Z. Physik 167, 273-83 (1962). (LADC-4982)

- 62-140 Kressin, Ivan K. and Waterbury, Glenn R.  
 QUANTITATIVE SEPARATION OF PLUTONIUM FROM VARIOUS IONS BY  
 ANION EXCHANGE.  
 Anal. Chem. 34, 1598-1601 (1962). (LADC-5352)
- 62-141 Kruse, Ferdinand H. and Asprey, Larned B.  
 CRYSTALLINE FLUORIDE COMPLEX OF TETRAVALENT AMERICIUM.  
 Inorg. Chem. 1, 137-9 (1962). (LADC-5123)
- 62-142 Lamb, George L., Jr.  
 ATTENUATION OF WAVES IN A DISPERSIVE MEDIUM.  
 J. Geophys. Res. 67, 5273-77 (1962). (LADC-5437)
- 62-143 Langham, Wright H., Lawrence, James N. P., McClelland, Jean,  
 and Hempelmann, Louis H.  
 LOS ALAMOS SCIENTIFIC LABORATORY'S EXPERIENCE WITH PLUTONIUM  
 IN MAN.  
 Health Phys. 8, 753-60 (1962). (LADC-5360)
- 62-144 Langham, Wright H.  
 RADIATION SAFETY IN THE DEVELOPMENT AND USE OF NUCLEAR ENERGY  
 FOR ROCKET PROPULSION.  
 Health Phys. 8, 305-11 (1962). (LADC-4767)
- 62-145 Lanter, Robert J. and Bannerman, Daniel E.  
 NEARLY-FOUR-PI LIQUID SCINTILLATION COUNTER FOR BURSTS OF  
 FAST NEUTRONS.  
 I.R.E. Trans. Nucl. Sci. 9, 3, 352-6 (1962). (LADC-5186)
- 62-146 Laquer, Henry L.  
 CRYOGENIC MAGNET PROGRAM AT LOS ALAMOS.  
 Proc. Intern. Conf. High Magnetic Fields, MIT, November  
 1-4, 1961, p. 156-65 (1962). (LADC-4932)
- 62-147 Larson, Allen C. and Cromer, Don T.  
 CRYSTAL STRUCTURE OF  $Ce_{24}Co_{11}$ .  
 Acta Cryst. 15, 1224-27 (1962). (LADC-5240)

- 62-148 Lawrence, James N. P.  
 PUQFUA, AN IBM 704 CODE FOR COMPUTING PLUTONIUM BODY BURDENS.  
 Health Phys. 8, 61-6 (1962). (LADC-4342)
- 62-149 Lawrence, James N. P.  
 PUQFUA, AN IBM 704 FORTRAN CODE FOR DETERMINING PLUTONIUM  
 BODY BURDEN FROM URINE ANALYSIS.  
 Proc. Bio-Assay and Anal. Chem. Meeting, 6th, October 13-  
 14, 1960, Santa Fe, New Mexico, p. 185-210 (May 1962).  
 (LADC-4342)
- 62-150 Leachman, Robert B. and Sanmann, Everett E.  
 ANALYSIS OF SPIN-DEPENDENT FISSION ANISOTROPY.  
 Ann. Phys. 18, 274-93 (1962). (LADC-4800)
- 62-151 Leitnaker, James M. and Witteman, Willard G.  
 DISSOCIATION PRESSURE OF URANIUM DICARBIDE.  
 J. Chem. Phys. 36, 1445-52 (1962). (LADC-5018)
- 62-152 Leitnaker, James M., Bowman, Melvin G., and Gilles, Paul W.  
 HIGH-TEMPERATURE EVAPORATION AND THERMODYNAMIC PROPERTIES  
 OF ZIRCONIUM DIBORIDE.  
 J. Chem. Phys. 36, 350-8 (1962). (LADC-4870)
- 62-153 Leitnaker, James M., Bowman, Melvin G., and Gilles, Paul W.  
 THERMODYNAMIC PROPERTIES OF THE TANTALUM AND TUNGSTEN  
 BORIDES.  
 J. Electrochem. Soc. 109, 441-3 (1962). (LADC-4983)
- 62-154 Leitnaker, James M., Krikorian, Nerses H., and Krupka, Milton C.  
 UNUSUAL TERNARY BEHAVIOR OF TRANSITION METAL BORIDES.  
 J. Electrochem. Soc. 109, 66 (1962). (LADC-5016)
- 62-155 Levinson, Leonard S.  
 HIGH TEMPERATURE DROP CALORIMETER.  
 Rev. Sci. Instr. 33, 639-42 (1962). (LADC-5279)

- 62-156 Lewis, W. Burton, Jackson, Jasper A., Lemons, Joe Fred, and Taube, Henry.  
OXYGEN-17 NMR SHIFTS IN AQUEOUS SOLUTIONS OF RARE-EARTH IONS.  
J. Chem. Phys. 36, 694-701 (1962). (LADC-4336)
- 62-157 Lillienthal, James R. and Simmons, J. T.  
INSTRUMENTATION IN A RESEARCH LABORATORY.  
Instrumentation 15, 3, 4-7 (1962). (LADC-5331)
- 62-158 Little, Edward M., Quinn, Warren E., Ribe, Fred L., and Sawyer, George A.  
STUDIES OF STABILITY AND HEATING IN THE SCYLLA MAGNETIC COMPRESSION EXPERIMENT.  
Proc. Conf. Plasma Phys. Controlled Nucl. Fusion Res., Salzburg, 1961, pt. 2, p. 497-509 (1962). (LADC-4826)
- 62-159 Lushbaugh, Clarence C. and Langham, Juliamarie.  
DERMAL LESION FROM IMPLANTED PLUTONIUM.  
Arch. Dermatol. 86, 461-4 (1962). (LADC-5302)
- 62-160 Lushbaugh, Clarence C., Maddy, James R., and Basmann, Norma J.  
ELECTRONIC MEASUREMENT OF CELLULAR VOLUMES. I. CALIBRATION OF THE APPARATUS.  
Blood 20, 233-40 (1962). (LADC-5203)
- 62-161 Lushbaugh, Clarence C., Basmann, Norma J., and Glascock, R. Breck.  
ELECTRONIC MEASUREMENT OF CELLULAR VOLUMES. II. FREQUENCY DISTRIBUTION OF ERYTHROCYTE VOLUMES.  
Blood 20, 241-8 (1962). (LADC-5204)
- 62-162 Lushbaugh, Clarence C.  
FATAL HYPERPLASTIC LESION IN NEUTRON-EXPOSED MICE.  
Arch. Pathol. 74, 297-303 (1962). (LADC-5303)
- 62-163 Lushbaugh, Clarence C.  
WHAT CAN WE EXPECT TO HAPPEN?  
Rocky M. Med. J. 59, 1, 37-40 (1962). (LADC-5150)

- 62-164 Lust, Reimar, Martensen, Erich, and Suydam, Bergen R.  
 STABILITY OF A PLASMA TORUS AGAINST DISTURBANCES NOT  
 DEPENDENT ON THE AZIMUTH.  
 Phys. Fluids 5, 439-44 (1962). (LADC-5006)
- 62-165 McDowell, Robin S. and Asprey, Larned B.  
 INFRARED SPECTRUM OF BROMINE PENTAFLUORIDE.  
 J. Chem. Phys. 37, 165-7 (1962). (LADC-5174)
- 62-166 McDowell, Robin S.  
 LOW-FREQUENCY FUNDAMENTALS OF SOME METAL CARBONYLS.  
 J. Chem. Phys. 36, 3321-24 (1962). (LADC-5221)
- 62-167 McDowell, Robin S. and Jones, Ilewellyn H.  
 PURE ROTATIONAL SPECTRUM OF  $NI_3$ .  
 J. Mol. Spectr. 2, 79-80 (1962). (LADC-5320)
- 62-168 Mace, Philip N.  
 DEVELOPMENT OF INSTRUMENTATION FOR USE IN NUCLEAR  
 ENVIRONMENTS.  
 I.R.E. Trans. Nucl. Sci. 9, 1, 338-45 (1962). (LADC-4962)
- 62-169 McLeod, John J.  
 KIWI GROUND TEST NEUTRONICS INSTRUMENTATION.  
 I.R.E. Trans. Nucl. Sci. 9, 1, 113-8 (1962). (LADC-4970)
- 62-170 MacMillan, Donald P.  
 MATERIAL REQUIREMENTS FOR NUCLEAR ROCKETS.  
 Golden Gate Metals Conf., San Francisco, California,  
 February 15-17, 1962. Advance Papers, p. 128-38 (1962).  
 (LADC-5084)
- 62-171 McQueen, Robert G. and Marsh, Stanley Peter.  
 ULTIMATE YIELD STRENGTH OF COPPER.  
 J. Appl. Phys. 33, 654-65 (1962). (LADC-4584)



- 62-172 McWilliams, Paul, Hall, W. Stanley, and Wegner, Harvey E.  
MULTICHANNEL ANALYZER DATA ANALYSIS BY A LEAST SQUARES  
COMPUTER PROGRAM.  
Rev. Sci. Instr. 33, 70-3 (1962). (LADC-4999)
- 62-173 McWilliams, Paul and Matlack, George M.  
USE OF HIGH-SPEED COMPUTERS IN THE PREPARATION AND REPORTING  
OF ROUTINE RADIOCHEMICAL PLUTONIUM ANALYSIS.  
Proc. Anal. Chem. Nucl. Reactor Tech., 5th, Gatlinburg,  
Tennessee, 1961, p. 193-208 (1962). (LADC-4966)(TID-7629)
- 62-174 Manley, John H.  
FRAGMENT MASS-ANGLE CORRELATION IN  $U^{238} + n$  FISSION.  
Nucl. Phys. 33, 70-82 (1962). (LADC-4627)
- 62-175 Marshall, John and Stratton, Thomas F.  
COLLISION OF TWO PLASMAS.  
Proc. Conf. Plasma Phys. Controlled Nucl. Fusion Res.,  
Salzburg, 1961, pt. 2, p. 663-74 (1962). (LADC-4824)
- 62-176 Marshall, John.  
INJECTION.  
Proc. Intern. Conf. High Magnetic Fields, MIT, November 1-4,  
1961, p. 688-92 (1962). (LADC-5126)
- 62-177 Masters, Burton J.  
RADIOCHLORINE.  
Inorganic Isotopic Syntheses, Herber, R. H. (ed) (W. A.  
Benjamin, New York), p. 215-26 (1962). (LADC-5177)
- 62-178 Matlack, George M. and Zeigler, Royal Keith.  
DETERMINATION OF THE SPECIFIC ACTIVITY OF PILE-PRODUCED  
PLUTONIUM BY MEASUREMENT OF  $Pu^{238}$  CONTENT.  
Proc. Anal. Chem. Nucl. Reactor Tech., 5th, Gatlinburg,  
Tennessee, 1961, p. 185-92 (1962). (LADC-4964)(TID-7629)

- 62-179 Meadows, Jesse W. T. and Matlack, George M.  
RADIOCHEMICAL DETERMINATION OF RUTHENIUM BY SOLVENT EXTRACTION AND PREPARATION OF CARRIER-FREE RUTHENIUM ACTIVITY.  
Anal. Chem. 34, 89-91 (1962). (LADC-4890)
- 62-180 Metz, Charles F. and Waterbury, Glenn R.  
TRANSURANIC ACTINIDE ELEMENTS.  
Treatise Anal. Chem., 2, 9, 189-440 (1962). (LADC-4117)
- 62-181 Metzger, Albert E., Van Dilla, Marvin A., Anderson, Ernest C., and Arnold, James R.  
RANGER GAMMA-RAY SPECTROMETER  
Nucleonics 20, 10, 64-6 (1962). (LADC-NN-110)
- 62-182 Miller, Daniel Weber, Wegner, Harvey E., and Hall, W. Stanley.  
ENERGY AND ORBITAL ANGULAR MOMENTUM DEPENDENCE OF COULOMB-DISTORTED (d,p) ANGULAR DISTRIBUTIONS.  
Phys. Rev. 125, 2054-62 (1962). (LADC-4721)
- 62-183 Mills, Carroll B. and Bell, George I.  
CRITICALITY OF LOW ENRICHMENT URANIUM IN HYDROGEN.  
Nucl. Sci. Eng. 12, 469-73 (1962). (LADC-4894)
- 62-184 Mills, Carroll B.  
REFLECTOR MODERATED REACTORS.  
Nucl. Sci. Eng. 13, 301-5 (1962). (LADC-5069)
- 62-185 Moore, Roger H.  
COMPUTER CODE EXTRACT ENTITLED LOS ALAMOS LEAST SQUARES.  
Nucl. Sci. Eng. 12, 446 (1962). (LADC-5009)
- 62-186 Motz, Henry T., Carter, Robert E., and Barfield, Walter D.  
THERMAL-NEUTRON CAPTURE GAMMA-RAYS FROM BERYLLIUM AND NITROGEN.  
Proc. Symp. Fission Neutron Res. Phys., Vienna, Austria, October 17-21, 1960, p. 225-38 (1962). (LADC-4493)

- 62-187 Mulford, Robert N. R., Ford, John O., and Hoffman, Joseph G.  
VOLATILITY OF PLUTONIUM CARBIDE.  
Proc. Thermodyn. Nucl. Mater., Vienna, May 21-25, 1962,  
p. 517-25 (1962). (LADC-5175)
- 62-188 Murphy, Daniel J., Kirby, Robert S., Hanks, Gale S., and  
Taub, James M.  
ELEVATED TEMPERATURE IMPACT DENSIFICATION OF Mo-UO<sub>2</sub> POWDER  
MIXTURES.  
Metals Eng. Quart. 2, 2, 52-60 (1962). (LADC-4494)
- 62-189 Nagle, Darragh E. and Taylor, R. Dean.  
HYDRAULIC CONSTANT VELOCITY DRIVE.  
Proc. Intern. Conf. Mossbauer Effect, 2nd, Saclay, France,  
September 13-15, 1961, p. 49-50 (1962). (LADC-NN-111)
- 62-190 Nagle, Darragh E., Craig, Paul P., Barrett, Paul, Cochran,  
Donald R., F., Olsen, Clayton E., and Taylor, R. Dean..  
INTERNAL FIELDS AT LOW TEMPERATURES IN CoPd ALLOYS.  
Phys. Rev. 125, 490-1 (1962). (LADC-5034)
- 62-191 Nelson, Gilbert B. and Waterbury, Glenn R.  
SPECTROPHOTOMETRIC DETERMINATION OF MICROGRAM QUANTITIES OF  
MOLYBDENUM AND TUNGSTEN IN PLUTONIUM USING DITHIOL.  
Proc. Anal. Chem. Nucl. Reactor Tech., 5th, Gatlinburg,  
Tennessee, 1961, p. 62-8 (1962). (LADC-4959)(TID-7629)
- 62-192 Nereson, Norris G. and Arnold, George.  
NEUTRON COHERENT SCATTERING AMPLITUDES FOR Cd AND Eu.  
Phys. Rev. 126, 2262 (1962). (LADC-5002)
- 62-193 Nereson, Norris G., Olsen, Clayton E., and Arnold, George P.  
NEUTRON-DIFFRACTION STUDIES ON EuO.  
Phys. Rev. 127, 2101-04 (1962). Also: Bull. Am. Phys.  
Soc. 2, 7, 264 (1962). (LADC-5250)
- 62-194 Newton, Thomas W. and Baker, Floyd B.  
BINUCLEAR INTERMEDIATES IN THE REACTION BETWEEN URANIUM(VI)  
AND CHROMIUM(II).  
Inorg. Chem. 1, 368-77 (1962). (LADC-5157)

- 62-195 Nobles, Ralph A.  
LONG-RANGE PARTICLES FROM NUCLEAR FISSION.  
Phys. Rev. 126, 1508-13 (1962). (LADC-5151)
- 62-196 Ogard, Allen E., Pritchard, William C., Douglass, Robert M.,  
and Leary, Joseph A.  
POWDER METALLURGY OF PLUTONIUM FUEL MATERIALS.  
Powder Metallurgy in the Nuclear Age, Plansee Proceedings, 1961, Benesovsky, F. (ed), Reutte/Tyrol, Metallwerk Plansee AG, p. 364-86 (1962). (LADC-4626)
- 62-197 Ogard, Allen E., Pritchard, William C., Douglass, Robert M.,  
and Leary, Joseph A.  
PREPARATION OF URANIUM MONOCARBIDE-PLUTONIUM MONOCARBIDE  
SOLID SOLUTIONS, PLUTONIUM SESQUICARBIDE AND PLUTONIUM  
MONOCARBIDE.  
J. Inorg. & Nucl. Chem. 24, 29-34 (1962). (LADC-4626A)
- 62-198 Oliphant, Thomas A.  
EXTRAPOLATION PROCEDURE FOR SOLVING LINEAR SYSTEMS.  
Quart. Appl. Math. 20, 257-65 (1962). (LADC-5134)
- 62-199 Olsen, Clayton E. and Elliott, Reed O.  
EFFECTS OF IMPURITIES AND SELF-IRRADIATION ON THE ELECTRICAL  
RESISTIVITY OF ALPHA-PHASE PLUTONIUM BELOW 300°K.  
Phys. Chem. Solids 23, 1225-40 (1962). (LADC-5416)
- 62-200 Olsen, Clayton E., Nereson, Norris G., and Arnold, George P.  
NEUTRON DIFFRACTION STUDIES ON EUROPIUM METAL.  
J. Appl. Phys. 33, 3, 1135-36 (1962). (LADC-5011)
- 62-201 Olson, Donald M., Brixner, Berlyn B. and Smith, Morton C.  
MICROSCOPE FOR ULTRAHIGH TEMPERATURES.  
Metal Progr. 81, 6, 75-9 (1962). (LADC-4906)
- 62-202 Onstott, Edward I.  
SEPARABILITY OF GADOLINIUM, TERBIUM AND DYSPROSIUM IN AQUEOUS  
LITHIUM CITRATE ELECTROLYTES WITH AMALGAM CATHODES.  
Rare Earth Research, Nauchman, Joseph F. and Lundin, Charles  
E. (eds)(Gordon and Breach, New York), p. 59-68 (1962).  
(LADC-4900)

- 62-203 Osher, John E.  
TRAPPING AND PROLONGED CONFINEMENT OF AN ENERGETIC DEUTERIUM  
PLASMA IN A STATIC CUSPED MAGNETIC FIELD.  
Phys. Rev. Letters 8, 305-9 (1962). (LADC-5286)
- 62-204 Overton, William C., Jr.  
CONVERSION OF  $c_v [T, V(T)]$  TO  $c_v [T, V(0^\circ K)]$  WITH APPLICA-  
TIONS TO Na AND Cu.  
J. Chem. Phys. 37, 2975-85 (1962). (LADC-5403)
- 62-205 Penneman, Robert A., Asprey, Larned B., and Sturgeon, George.  
FLUORIDE COMPLEXES OF PENTAVALENT URANIUM.  
J. Am. Chem. Soc. 84, 4608-09 (1962). (LADC-5479)
- 62-206 Petersen, Donald F.  
GROWTH OF MONODISPERSE POPULATIONS OF MAMMALIAN CELLS EXPOSED  
TO INTERNAL BETA IRRADIATION.  
Symp. Appl. Math., AMS 14, 233-9 (1962). (LADC-4796)
- 62-207 Petersen, Donald F., Mitchell, Victoria E., and Langham, Wright H.  
RADIOCHEMICAL DETERMINATION OF FAST NEUTRON DOSES IN MAN.  
Proc. Bio-Assay Anal. Chem. Meeting, 6th, October 13-14,  
1960, Santa Fe, New Mexico, p. 89-97 (May 1962).  
(LADC-4470)
- 62-208 Peterson, Rolf E.  
LOS ALAMOS MOLTEN PLUTONIUM REACTOR EXPERIMENT NO. 1.  
Symp. Sodium Reactors Tech., Lincoln, Nebraska, May 24-25,  
1961, p. 52-62 (1962). (LADC-4860)
- 62-209 Pimbley, George H., Jr.  
SUBLINEAR STURM-LIOUVILLE PROBLEM.  
J. Math. Mech. 11, 121-38 (1962). (LADC-4401)
- 62-210 Pimbley, George H., Jr.  
SUPERLINEAR STURM-LIOUVILLE PROBLEM.  
Trans. Am. Math. Soc. 103, 229-48 (1962). (LADC-4875)

- 62-211 Pitts, Jerry J. and Lyon, Luther L.  
 INTERCALATION OF COBALT (II) CHLORIDE IN GRAPHITE.  
 Proc. Conf. Carbon, 5th, University Park, Pennsylvania,  
 1961, p. 132-8 (1962). (LADC-4753)
- 62-212 Pretzel, Frank E., Gritton, George Vance, Rushing, Charles C.,  
 Friauf, Robert J., Lewis, W. Burton, and Waldstein, Peter.  
 PROPERTIES OF LITHIUM HYDRIDE - IV. F-CENTER FORMATION AT  
 LOW TEMPERATURES.  
 Phys. Chem. Solids 23, 325-37 (1962). (LADC-4685)
- 62-213 Pretzel, Frank E., Lewis, W. Burton, Szklarz, Eugene G., and  
 Vier, Dwayne T.  
 PROPERTIES OF LITHIUM HYDRIDE-V VACANCY FORMATION, CAVITATION,  
 AND LITHIUM PRECIPITATION IN IRRADIATED LITHIUM HYDRIDE.  
 J. Appl. Phys. 33, 510-8 (1962). (LADC-4986)
- 62-214 Pretzel, Frank E. and Petty, Roy L.  
 X-RAY STUDY OF INTERSTITIAL DEFECTS IN RADIATION-DAMAGED  
 ALKALI HALIDES AND LiH.  
 Phys. Rev. 127, 777-86 (1962). (LADC-5271)
- 62-215 Putnam, Thomas M. and Kemp, Edwin L.  
 ENERGY STORAGE SYSTEM FOR A 3.5-MEGAJOULE MAGNETIC COMPRESSION  
 EXPERIMENT.  
 I.R.E. Trans. Nucl. Sci. 9, 2, 74-82 (1962). (LADC-5049)
- 62-216 Redman, Helen F. and Godfrey, Lois E. (eds)  
DICTIONARY OF REPORT SERIES CODES, (Special Libraries  
 Association, New York), 648 p. (1962). (LADC-NV-197)
- 62-217 Redman, Helen F.  
 REPORT NUMBER CHAOS.  
 Spec. Libraries 54, 574-78 (1962). (LADC-5506)
- 62-218 Reichelt, Walter H.  
 FABRICATION AND OPERATION OF IN-PILE CESIUM PLASMA CELLS.  
 Minutes, Proc. Round Table Discussion Thermionic Process &  
 Mater., June 1-2, 1961, L. G. Hanscomb Field, Bedford,  
 Massachusetts, and MIT, Cambridge. App. K. (1962).  
 (LADC-4931) (PIC-ELE-TI-3-2)

- 62-219 Reithel, Robert J. and Blackburn, James H.  
 HYDRODYNAMIC EXPLANATION FOR THE ANOMALOUS RESISTANCE OF  
 EXPLODING WIRES.  
Exploding Wires, Chace, William G. and Moore, Howard K.  
 (eds)(Plenum Press, New York), v. 2, p. 21-31 (1962).  
 (LADC-5138)
- 62-220 Reynolds, Clayton E. and Seay, Glenn E.  
 TWO-WAVE SHOCK STRUCTURES IN THE FERROELECTRIC CERAMICS  
 BARIUM TITANATE AND LEAD ZIRCONATE TITANATE.  
 J. Appl. Phys. 33, 2234-41 (1962). (LADC-5206)
- 62-221 Richmond, Chester R., Furchner, John E., Trafton, Glessie A.,  
 and Langham, Wright H.  
 COMPARATIVE METABOLISM OF RADIONUCLIDES IN MAMMALS.  
 I. UPTAKE AND RETENTION OF ORALLY ADMINISTERED Zn<sup>65</sup> BY FOUR  
 MAMMALIAN SPECIES.  
 Health Phys. 8, 481-9 (1962). (LADC-5272)
- 62-222 Richmond, Chester R., Langham, Wright H., and Trujillo,  
 Theodore T.  
 COMPARATIVE METABOLISM OF TRITIATED WATER BY MAMMALS.  
 J. Cellular Comp. Physiol. 59, 45-53 (1962). (LADC-5061)
- 62-223 Richmond, Chester R., Furchner, John E., and Trafton, Glessie A.  
 COMPARISON OF PREDICTED AND MEASURED EQUILIBRIUM LEVELS FOR  
 CHRONICALLY ADMINISTERED Cs<sup>137</sup>.  
 Health Phys. 7, 219-25 (1962). (LADC-4743)
- 62-224 Richmond, Chester R., Furchner, John E., and Cummins, Ben  
 Milton.  
 EFFECT OF AGE, SODIUM DEPLETION AND SODIUM REPLETION ON THE  
 RETENTION OF SODIUM<sup>22</sup> BY RATS.  
 J. Nutr. 76, 210-4 (1962). (LADC-5074)
- 62-225 Richmond, Chester R., Furchner, John E., and Langham, Wright H.  
 LONG-TERM RETENTION OF RADIOCESIUM BY MAN.  
 Health Phys. 8, 201-5 (1962). (LADC-5164)

- 62-226 Rink, John P.  
DISSOCIATION RATES OF DEUTERIUM.  
J. Chem. Phys. 36, 1398-1400 (1962). (LADC-5167)
- 62-227 Rink, John P.  
RELATIVE EFFICIENCIES OF INERT THIRD BODIES IN DISSOCIATING OXYGEN.  
J. Chem. Phys. 36, 572-3 (1962). (LADC-5038)
- 62-228 Rink, John P.  
SHOCK TUBE DETERMINATION OF DISSOCIATION RATES OF HYDROGEN.  
J. Chem. Phys. 36, 262-4 (1962). (LADC-4920)
- 62-229 Roberts, Edwin M.  
EXACT INTEGRAL RELATIONSHIP IN QUANTUM MECHANICS: APPLICATION TO THE VARIATIONAL METHOD.  
Phys. Rev. 128, 1381-83 (1962). (LADC-5368)
- 62-230 Roberts, Thomas R., Sydoriak, Stephen G., and Sherman, Robert H.  
ESTABLISHMENT OF PARAMAGNETIC SALT EQUATIONS AND REANALYSIS OF HELIUM BY THE METHOD OF MULTIPLE VARIABLE LEAST SQUARES.  
Bull. Intern. Inst. Refrig., Annexe, 1961-5, p. 115-23 (1962). (LADC-4889)
- 62-231 Roberts, Thomas R., Sydoriak, Stephen G., and Sherman, Robert H.  
PROBLEMS ON ESTABLISHMENT OF A He<sup>3</sup> SCALE OF TEMPERATURE.  
Temp., Its Meas. Control Sci. Ind., 4th, Columbus, Ohio, March 27-31, 1961, v.3, p. 75-87 (1962). (LADC-4589)
- 62-232 Robinson, Eugene S., Briesmeister, Arthur C., McInteer, Bertus B., and Potter, Robert M.  
SEPARATION OF TRITIUM FROM HYDROGEN BY THERMAL DIFFUSION.  
Radioisotopes Phys. Sci. Ind. 431-8 (1962). (LADC-4377)
- 62-233 Rogers, John D., Zeigler, Keith, and McWilliams, Paul.  
HYDROGEN TRANSPORT PROPERTY CORRELATIONS.  
J. Chem. Eng. Data 7, 179-82 (1962). (LADC-4828)



- 62-234 Rogers, Raymond N.  
INCOMPATIBILITY IN EXPLOSIVE MIXTURES.  
Prod. Res. Develop. 1, 169-72 (1962). (LADC-5211b)
- 62-235 Roof, Raymond B., Jr.  
ANOMALOUS DISPERSION CORRECTIONS FOR MOLYBDENUM.  
Acta Cryst. 15, 1044 (1962). (LADC-5172)
- 62-236 Roof, Raymond B., Jr., and Kempter, Charles P.  
NEW ORTHORHOMBIC PHASE IN THE Ru-B AND Os-B SYSTEMS.  
J. Chem. Phys. 37, 1473-76 (1962). (LADC-5347)
- 62-237 Roof, Raymond B., Jr., Arnold, George P., and Gschneidner, Karl A.  
NUCLEAR COHERENT SCATTERING AMPLITUDES FOR THORIUM, URANIUM AND PLUTONIUM.  
Acta Cryst. 15, 351-2 (1962). (LADC-4911)
- 62-238 Rosen, Louis and Leland, Wallace T.  
ELASTIC SCATTERING OF 14.5-MEV POLARIZED PROTONS BY PAIRS OF ISOTOPES AND ISOBARS.  
Phys. Rev. Letters 8, 379-81 (1962). (LADC-5307)
- 62-239 Rosen, Louis, Darriulat, P., Faraggi, Henriette, and Garin, A.  
ELASTIC SCATTERING OF POLARIZED PROTONS BY C<sup>12</sup>.  
Nucl. Phys. 33, 458-67 (1962). (LADC-5003)
- 62-240 Rosen, Louis and Stewart, Leona.  
NEUTRON-INDUCED DISINTEGRATIONS OF Li<sup>6</sup> AND Li<sup>7</sup>.  
Phys. Rev. 126, 1050-51 (1962). (LADC-5196)
- 62-241 Salsburg, Zevi W. and Wood, William Wayne.  
EQUATION OF STATE OF CLASSICAL HARD SPHERES AT HIGH DENSITY.  
J. Chem. Phys. 37, 798-804 (1962). (LADC-5328)
- 62-242 Salsburg, Zevi W.  
THEORY OF MULTICOMPONENT FLUID MIXTURES. III. A PSEUDO PAIR POTENTIAL.  
J. Chem. Phys. 36, 1974-79 (1962). (LADC-5140)

- 62-243 Sampson, Douglas H.  
ELECTRON-POSITRON PAIRS AT VERY HIGH TEMPERATURES.  
Astrophys. J. 135, 261-71 (1962). (LADC-4934)
- 62-244 Sandenaw, Thomas A.  
DETERMINATION OF THE RATE OF HEAT GENERATION OF PLUTONIUM METAL.  
Phys. Chem. Solids 23, 825-6 (1962). (LADC-5242)
- 62-245 Sandenaw, Thomas A.  
EFFECTS OF SELF-INDUCED RADIATION DAMAGE ON THE LOW TEMPERATURE HEAT CAPACITY OF A SPECIMEN OF ELECTRO-REFINED HIGH PURITY PLUTONIUM.  
Phys. Chem. Solids 23, 1241-48 (1962). (LADC-5215)
- 62-246 Sawyer, George A., Jahoda, Franz C., Ribe, Fred L., and Stratton, Thomas F.  
X-RAY SPECTROSCOPIC MEASUREMENTS OF A HIGH-TEMPERATURE PLASMA.  
J. Quant. Spectr. Radiative Transfer 2, 467-75 (1962). (LADC-4791)
- 62-247 Schuch, Adam F. and Mills, Robert L.  
STRUCTURE OF THE ALLOTROPIC FORMS OF He<sup>3</sup> AND He<sup>4</sup>.  
Advan. Cryog. Eng. 7, 311-7 (1962). (LADC-4854)
- 62-248 Schuch, Adam F. and Mills, Robert L.  
STRUCTURE OF THE  $\gamma$ -FORM OF SOLID He<sup>4</sup>.  
Phys. Rev. Letters 8, 469-70 (1962). (LADC-5324)
- 62-249 Schulte, Harry F.  
MODERN CONCEPTS OF AIR SAMPLING AND PROBLEMS FOR THE FUTURE.  
Am. Ind. Hyg. Assoc. J. 23, 20-5 (1962). (LADC-4816)
- 62-250 Seegmiller, Robert, Gore, James K., and Calkin, Brant.  
ADHERENT ELECTROPLATED COATINGS ON TUNGSTEN, MOLYBDENUM, TANTALUM, AND NIOBIUM.  
Tech. Proc. Am. Electroplaters' Soc. 49, 67-70 (1962). (LADC-5171)

- 62-251 Shepherd, George R. and Sanders, Phyllis C.  
 COMPLIMENTARY EFFECTS OF 2-MERCAPTOETHANOL AND TRYPSIN IN  
 THE LYSIS OF HeLa CELLS.  
 J. Biophys. Biochem. Cytol. 14, 346-52 (1962).  
 (LADC-5290)
- 62-252 Shepherd, George R. and Petersen, Donald F.  
 SEPARATION OF PHENOL AND DIOXYRIBONUCLEIC ACID BY SEPHADEX  
 GEL FILTRATION.  
 J. Chromatog. 2, 445-8 (1962). (LADC-5322)
- 62-253 Sherman, Robert H., Roberts, Thomas R., and Sydoriak,  
 Stephen G.  
 He<sup>3</sup> VAPOR PRESSURES: A STANDARD FOR IMPROVED THERMOMETRY  
 BELOW 1°K.  
 Bull. Intern. Inst. Refrig., Annexe, 1961-5, p. 125-32  
 (1962). (LADC-4888)
- 62-254 Silbert, Myron G.  
 NUCLEAR ENERGY LEVELS OF C<sup>13</sup>; TWO-STAGE REACTION N<sup>14</sup>(t,n)O<sup>16</sup>\*  
 (α)C<sup>12</sup>.  
 Phys. Rev. 127, 2113-22 (1962). (LADC-5334)
- 62-255 Smith, H. Louise, Smith, Ronald K., and Henkel, Richard L.  
 NEUTRON-INDUCED FISSION OF Pu<sup>241</sup>.  
 Phys. Rev. 125, 1329-33 (1962). (LADC-5088)
- 62-256 Smoluchowski, Roman.  
 PROBLEM OF ANOMALOUS RESISTIVITY IN PLUTONIUM.  
 Phys. Rev. 125, 1577-81 (1962). (LADC-5142)
- 62-257 Spalding, John F. and Trujillo, Theodore T.  
 RADIOSENSITIVITY OF MICE AS A FUNCTION OF AGE.  
 Radiation Res. 16, 125-9 (1962). (LADC-4865)
- 62-258 Spalding, John F. and Strang, Verda G.  
 REDUCED SURVIVAL TIME IN DESCENDANTS OF FIVE GENERATIONS OF  
 X-IRRADIATED SIREs.  
 Radiation Res. 16, 159-64 (1962). (LADC-4960)

- 62-259 Stein, Patricia C.  
SEPARATION OF STRONTIUM-90 AND YTTRIUM-90 WITH ION EXCHANGE PAPERS.  
Anal. Chem. 34, 352-4 (1962). (LADC-5050)
- 62-260 Stewart, Leona, Brolley, John E., Jr., and Rosen, Louis.  
d-He<sup>4</sup> ELASTIC SCATTERING FROM 6 TO 14 MEV.  
Phys. Rev. 128, 707-11 (1962). (LADC-5181)
- 62-261 Steyert, William A. and Craig, Paul P.  
EVIDENCE FOR ANHARMONIC BINDING OF ISOLATED Fe IMPURITY ATOMS.  
Phys. Letters 2, 165-7 (1962). (LADC-5422)
- 62-262 Stone, Philip M.  
CESIUM OSCILLATOR STRENGTHS.  
Phys. Rev. 127, 1151-56 (1962). Also: Bull. Am. Phys. Soc. 2, 7, 275 (1962). (LADC-5245)
- 62-263 Stone, Philip M. and Agnew, Lewis.  
PLASMA-BROADENED CESIUM LINES.  
Phys. Rev. 127, 1157-62 (1962). (LADC-5244)
- 62-264 Storm, Ellery and Israel, Harvey.  
VARIATION OF RESPONSE (FRONT-TO-BACK EFFECT) IN CALIBRATING FILM BADGES TO A Co<sup>60</sup> SOURCE.  
Health Phys. 8, 343-51 (1962). (LADC-5197)
- 62-265 Storms, Edmund K. and McNeal, Robert J.  
VANADIUM-VANADIUM CARBIDE SYSTEM.  
J. Phys. Chem. 66, 1401-08 (1962). (LADC-5220)
- 62-266 Stratton, Thomas F.  
PLASMA TEMPERATURES BY SPECTROSCOPY IN THE X-RAY REGION.  
Temp., Its Meas. Control Sci. Ind., 4th, Symp. Temp., Columbus, Ohio, March 27-31, 1961, v.3, p. 663-78 (1962). (LADC-4806)

- 62-267 Sullivan, John H.  
 RATES OF REACTION OF HYDROGEN WITH IODINE. II.  
 J. Chem. Phys. 36, 1925-32 (1962). (LADC-5114)
- 62-268 Taschek, Richard F.  
 SOME SCIENTIFIC AND OTHER PROBLEMS IN NEUTRON MEASUREMENTS  
 BELOW 100 KEV.  
Neutron Time-of-Flight Methods, Proc. of a Symp., Spaepen,  
 J. (ed) (Brussels, EURATOM), p. 15-19 (1962).  
 (LADC-4916)
- 62-269 Taylor, Raymond Dean.  
 LOW-TEMPERATURE THERMOMETER UTILIZING THE MOSSBAUER EFFECT.  
 Temp., Its Meas. Control Sci. Ind., 4th Symp. Temp.,  
 Columbus, Ohio, March 27-31, 1961, v.3, p. 139-45 (1962).  
 (LADC-4592)
- 62-270 Taylor, R. Dean.  
 MOSSBAUER EFFECT LOW TEMPERATURE THERMOMETER.  
 Proc. Intern. Conf. Mossbauer Effect, 2nd, Saclay, France,  
 September 13-15, 1961, p. 203-8 (1962). (LADC-4592)
- 62-271 Tenney, Gerold H.  
 DEVELOPMENT AND APPLICATION OF RADIOGRAPHIC TECHNIQUES.  
 Nucl. Congr., 7th, New York, June 4-7, 1962. Preprints  
 of Papers, No. 22, 27 p., New York, Engineers Joint  
 Council (1962). (LADC-5350)
- 62-272 Tenney, Gerold H.  
 INTERNATIONAL SCIENTIFIC PROGRESS IN THE FIELD OF NONDESTRUC-  
 TIVE TESTING.  
 Materialprüfung 4, 153-6 (1962). (LADC-4836)
- 62-273 Terrell, James.  
 NEUTRON YIELDS FROM INDIVIDUAL FISSION FRAGMENTS.  
 Phys. Rev. 127, 880-904 (1962). (LADC-4708) also  
 (LADC-5335)

- 62-274 Thamer, Burton J., Hammond, R. Philip, Bidwell, Richard M.,  
Burwell, Calvin C., and Kemme, Joseph.  
CORROSION TESTS WITH MOLTEN PLUTONIUM FUELS.  
Proc. Conf. Corrosion Reactor Mater., Vienna, June 4-9, 1962,  
p. 285-318 (1962). (LADC-5166)
- 62-275 Thomson, David B., Cranberg, Lawrence, and Levin, Jules S.  
SCATTERING OF FAST NEUTRONS BY MAGNESIUM.  
Phys. Rev. 125, 2049-53 (1962). (LADC-5097)
- 62-276 Travis, James R., Campbell, Arthur W., Davis, William C., and  
Ramsay, John B.  
SHOCK INITIATION OF EXPLOSIVES III. LIQUID EXPLOSIVES.  
Colloq. Intern., No. 109, 45-57, 5 p. (1962). (LADC-4805)
- 62-277 Treiman, Leonard H.  
PRECISION PHOTON COUNTING PYROMETER.  
Temp., Its Meas. Control Sci. Ind., 4th Symp. Temp.,  
Columbus, Ohio, March 27-31, 1961, p. 46-7 (1962).  
(LADC-4590)
- 62-278 Trujillo, Theodore T., Spalding, John F., and Langham, Wright H.  
STUDY OF RADIATION-INDUCED AGING: RESPONSE OF IRRADIATED AND  
NONIRRADIATED MICE TO COLD STRESS.  
Radiation Res. 16, 144-50 (1962). (LADC-4735)
- 62-279 Tuck, James L.  
FUSION, NUCLEAR.  
McGraw-Hill Yearbook of Science and Technology (McGraw-  
Hill, New York), p. 237-9 (1962). (LADC-NN-92)
- 62-280 Ulam, Stanislaw M.  
ELECTRONIC COMPUTERS AND SCIENTIFIC RESEARCH.  
Age of Electronics, Overhage, Carl F. J. (ed) (McGraw-Hill,  
New York), p. 95-108 (1962). (LADC-NN-106)
- 62-281 Ulam, Stanislaw M.  
STABILITY OF MANY-BODY COMPUTATIONS.  
Symp. Appl. Math., AMS 13, 247-58 (1962). (LADC-PUB-281)

- 62-282 Urizar, Manuel J., Loughran, E. Dan, and Smith, Louis C.  
EFFECTS OF NUCLEAR RADIATION ON ORGANIC EXPLOSIVES.  
Explosivstoffe 10, 55-64 (1962). (LADC-4795)
- 62-283 Van Dilla, Marvin A. and Anderson, Ernest C.  
HUMAN COUNTERS USING LIQUID SCINTILLATORS.  
Proc. Symp. Whole Body Counting, Vienna, Austria, June  
12-16, 1961, p. 41-58 (1962). (LADC-4764)
- 62-284 Van Dilla, Marvin A., Anderson, Ernest C., and Metzger, Albert  
E.  
LUNAR COMPOSITION BY SCINTILLATION SPECTROSCOPY.  
I.R.E. Trans. Nucl. Sci. 9, 3, 405-12 (1962). (LADC-5188)
- 62-285 Venable, Douglas.  
SINGLE CAVITY HIGH CURRENT ELECTRON ACCELERATOR.  
Rev. Sci. Instr. 33, 456 (1962). (LADC-5056)
- 62-286 Waber, James T., Olsen, Clayton, and Whyte, Dawn D.  
ELECTRON DIFFRACTION STUDY OF THE REMOVAL AND FORMATION IN  
VACUO OF OXIDE FILMS ON URANIUM AND PLUTONIUM.  
J. Electrochem. Soc. 109, 895-902 (1962). (LADC-3783)
- 62-287 Wackerle, Jerry.  
SHOCK-WAVE COMPRESSION OF QUARTZ.  
J. Appl. Phys. 33, 922-37 (1962). (LADC-4579)
- 62-288 Ward, John W. and Waber, James T.  
ELECTROCHEMICAL BEHAVIOR OF URANIUM.  
J. Electrochem. Soc. 109, 76-81 (1962). (LADC-4047)
- 62-289 Ward, John W.  
METHOD FOR HIGH-VACUUM BAKEOUT OF METAL VACUUM SYSTEMS.  
Vacuum 12, 27 (1962). (LADC-4996)
- 62-290 Wegner, Harvey E.  
SEMICONDUCTOR AND GAS-ION-CHAMBER DETECTOR SYSTEM FOR THE  
MASS IDENTIFICATION OF 10- TO 30-MEV PARTICLES.  
Rev. Sci. Instr. 33, 271-7 (1962). (LADC-5182)

- 62-291 Wegner, Harvey E.  
SEMICONDUCTOR DETECTOR SYSTEMS ( $dE/dx$  AND  $E$ ) FOR THE DETECTION AND MASS IDENTIFICATION OF PROTONS, DEUTERONS, TRITONS,  $He^3$  AND ALPHA PARTICLES IN THE 10 TO 30-MEV ENERGY REGION.  
Nucl. Electron., Belgrade, Yugoslavia, 1961. Proc. Conf. 1, 427-45 (1962). (LADC-4686)
- 62-292 Wherritt, Charles R., Field, Richard E., and Lyle, Alvin R.  
NEW HOT LABORATORY FACILITIES AT LOS ALAMOS.  
Proc. Hot Lab. Equip. Conf., 10th, Washington, D. C., November 26-28, 1962, p. 55-62 (1962). (LADC-5442)
- 62-293 Williams, D. Lloyd.  
SYNTHESIS OF CARBON-14 LABELED DEOXYRIBONUCLEOSIDES.  
Can. J. Chem. 40, 1742-45 (1962). (LADC-5345)
- 62-294 Witt, Jerry Robert and Onstott, Edward I.  
PREPARATION OF ANHYDROUS LANTHANON ACETATES BY DESOLVATION.  
J. Inorg. & Nucl. Chem. 24, 637-9 (1962). (LADC-4709)
- 62-295 Wolfsberg, Kurt.  
DETERMINATION OF RARE EARTHS IN FISSION PRODUCTS BY ION EXCHANGE AT ROOM TEMPERATURE.  
Anal. Chem. 34, 518-21 (1962). (LADC-5103)
- 62-296 Wykoff, Walter R.  
LOS ALAMOS MOLTEN PLUTONIUM REACTOR EXPERIMENT WORK.  
Symp. Sodium Reactors Tech., Lincoln, Nebraska, May 24-25, 1961, p. 149-60 (1962). (LADC-4892)
- 62-297 Zinn, John.  
INITIATION OF EXPLOSIVES BY HOT SPOTS.  
J. Chem. Phys. 36, 1949 (1962). (LADC-5083)



- 62-1A Agnew, Lewis and Stone, Philip M.  
 PROFILES OF PLASMA-BROADENED CESIUM LINES.  
 Bull. Am. Phys. Soc. 2, 7, 275 (1962). (LADC-5244)
- 62-2A Beyer, William A.  
 REGULA FALSI FOR TWO VARIABLES.  
 Am. Math. Soc, Notices 2, 476-7 (1962). (LADC-5460)
- 62-3A Bidwell, Richard M., Ferguson, William E., Burwell, Calvin C.,  
 Davidson, Keith V., Wykoff, Walter R., and Anderson, Robert W.  
 DEVELOPMENT OF HIGH PURITY TANTALUM AND ALLOYS FOR LIQUID  
 PLUTONIUM CONTAINMENT IN LAMPRE-I.  
 Trans. Am. Nucl. Soc. 4, 347 (1962). (LADC-4969)
- 62-4A Britt, Harold C. and Wegner, Harvey E.  
 $\text{He}^3$ -INDUCED FISSION OF  $\text{Bi}^{209}$  AND  $\text{Au}^{197}$ .  
 Bull. Am. Phys. Soc. 2, 7, 37 (1962). (LADC-5152)
- 62-5A Bruce, Warren, Kahn, Milton, and Leary, Joseph A.  
 KINETICS AND MECHANISM OF THE EXCHANGE OF CHLORINE ATOMS  
 BETWEEN HYDROGEN CHLORIDE AND BENZYL CHLORIDES - SOLVENT  
 EFFECTS.  
 Am. Chem. Soc. Abstracts of Papers 142, 35T (1962).  
 (LADC-5361)
- 62-6A Bryant, Howard C., Beery, Jerome G., Flynn, Edward R., and  
 Leland, Wallace T.  
 $(\text{He}^3, n)$  REACTIONS ON SOME LIGHT NUCLEI.  
 Bull. Am. Phys. Soc. 2, 7, 604-5 (1962). (LADC-5520)
- 62-7A Bunker, Don L.  
 MONTE CARLO CALCULATION OF TRIATOMIC DISSOCIATION RATES.  
 Am. Chem. Soc. Abstracts of Papers 141, 10R (1962).  
 (LADC-5147)
- 62-8A Bunker, Merle E. and Starner, John W.  
 DECAY OF  $\text{Tc}^{100}$ .  
 Bull. Am. Phys. Soc. 2, 7, 342 (1962). (LADC-5252)

- 62-9A Burkhardt, Louis C. and Lazar, Norman H.  
MAGNETIC FIELD PENETRATION BY A HIGH-VELOCITY LOW BETA PLASMA.  
Bull. Am. Phys. Soc. 2, 7, 143 (1962). (LADC-5071)
- 62-10A Burwell, Calvin C., Bidwell, Richard M., Kemme, Joseph E., and  
Thamer, Burton J.  
CORROSION TESTING OF LAMPRE-I FUEL.  
Trans. Am. Nucl. Soc. 4, 347-8 (1962). (LADC-4968)
- 62-11A Byatt, William J. and Martin, Robert E.  
NUMERICAL RESULTS IN RADIATION TRANSPORT.  
Bull. Am. Phys. Soc. 2, 7, 267 (1962). (LADC-5210)
- 62-12A Carmichael, Byron M. and Ragan, George L.  
STARTUP OF THE FIRST MOLTEN PLUTONIUM REACTOR.  
Trans. Am. Nucl. Soc. 4, 364-5 (1962). (LADC-4995)
- 62-13A Craig, Paul P.  
EXCESS VISCOSITY IN ROTATING He II.  
Bull. Am. Phys. Soc. 2, 7, 75-6 (1962). (LADC-5124)
- 62-14A Cranston, Frederick P., Jr., and Barger, Jack W.  
THERMIONIC EMISSION CHARACTERISTICS OF CERTAIN ACTINIDE  
COMPOUNDS.  
Bull. Am. Phys. Soc. 2, 7, 70-1 (1962). (LADC-5128)
- 62-15A Dreicer, Harry.  
INCOHERENT SCATTERING OF MICROWAVES BY DENSITY FLUCTUATIONS.  
Bull. Am. Phys. Soc. 2, 7, 151 (1962). (LADC-5070)
- 62-16A Dreicer, Harry.  
KINETIC THEORY OF AN ELECTRON-PHOTON GAS.  
Bull. Am. Phys. Soc. 2, 7, 260, 632 (1962). (LADC-5249)
- 62-17A Elliott, Guy R. B. and Lemons, Joe Fred.  
NONSTOICHIOMETRY IN INTERMETALLIC COMPOUNDS.  
Am. Chem. Soc. Abstracts of Papers 141, 16M (1962).  
(LADC-5143)

- 62-18A Ellis, Walton P.  
IMMERSION SPECTROPHOTOMETRY OF THIN FILMS.  
Am. Chem. Soc. Abstracts of Papers 141, 46-7R (1962).  
(LADC-5183)
- 62-19A Glover, Elsa M. and Hoffman, Marvin M.  
CALCULATIONS OF TORQUE ON A SPHEROIDAL FISSION FRAGMENT  
FOLLOWING SCISSION.  
Bull. Am. Phys. Soc. 2, 7, 18-9 (1962). (LADC-5129)
- 62-20A Grundl, James A.  
CAVITY FISSION SPECTRA.  
Trans. Am. Nucl. Soc. 5, 381-2 (1962). (LADC-5436)
- 62-21A Gschneidner, Karl A., Jr., and Smoluchowski, Roman.  
VALENCES OF CERIUM ALLOTROPES.  
Bull. Am. Phys. Soc. 2, 7, 230 (1962). (LADC-5118)
- 62-22A Gursky, Martin and Heller, Leon.  
COULOMB EFFECTS IN LIGHT-PARTICLE REACTIONS.  
Bull. Am. Phys. Soc. 2, 7, 359 (1962). (LADC-5241)
- 62-23A Hammel, Jay E. and Baker, Don A.  
INJECTION OF PLASMA INTO A LINEAR CROSSED-FIELD CONFIGURA-  
TION.  
Bull. Am. Phys. Soc. 2, 7, 143 (1962). (LADC-5080)
- 62-24A Hammond, R. Philip.  
MOBILE-FUEL REACTOR CONCEPT USING PASTE FUEL.  
Trans. Am. Nucl. Soc. 5, 438-9 (1962). (LADC-5425)
- 62-25A Hanks, Gale S., Kirby, Robert S., and Taub, James M.  
FABRICATION OF TANTALUM FUEL CONTAINERS FOR THE LAMPRE-I  
MOLTEN PLUTONIUM REACTOR.  
Trans. Am. Nucl. Soc. 4, 346-7 (1962). (LADC-4984)

- 62-26A Hartman, Paul L. and Hoerlin, Herman.  
 MEASUREMENTS OF THE FLUORESCENT EFFICIENCY OF AIR UNDER  
 ELECTRON BOMBARDMENT.  
 Bull. Am. Phys. Soc. 2, 7, 69 (1962). (LADC-5160)
- 62-27A Hoffman, Darleane C.  
 SOME STUDIES OF SHORT-LIVED FISSION PRODUCTS.  
 Disc. Nucl. Chem. (AERE M-1078, Abstr. 9, p. 24-6), (1962).  
 (LADC-5393)
- 62-28A Hoffman, Marvin M.  
 DIRECTIONAL CORRELATION OF FISSION FRAGMENTS AND PROMPT  
 GAMMA RAYS ASSOCIATED WITH THERMAL NEUTRON FISSION.  
 Disc. Nucl. Chem. (AERE M-1078, Abstr. 20, p. 43-4), (1962).  
 (LADC-5395)
- 62-29A James, Dean B. and Christensen, Eldon L.  
 PROCESSING OF PLUTONIUM BY ION EXCHANGE. II. THE ANION-  
 EXCHANGE SEPARATION OF PLUTONIUM AND THORIUM.  
 Trans. Am. Nucl. Soc. 5, 459-60 (1962). (LADC-5424)
- 62-30A Johnson, Vernon J., Valenta, Milton W., Douglass, Robert M.,  
 and Meadows, Jesse W.  
 STUDY OF THE FERROELECTRIC PROPERTIES OF THE SOLID SOLUTIONS  
 $Pb(Sc_{0.5}Ta_{0.5})_x \Phi_{1-x}O_3$ .  
 Bull. Am. Phys. Soc. 2, 7, 280 (1962). (LADC-4581)
- 62-31A Johnston, Robert R.  
 SECOND-ORDER OPTICAL-MODEL POTENTIAL FOR HIGH-ENERGY  
 NUCLEON-NUCLEUS SCATTERING.  
 Bull. Am. Phys. Soc. 2, 7, 357 (1962). (LADC-5238)
- 62-32A Karr, Hugh J. and Knapp, Edward A.  
 CYCLOTRON RESONANT INTERACTION OF A ROTATING MAGNETIC  
 PERTURBATION WITH PLASMA PRODUCED BY A HYDROMAGNETIC GUN.  
 Bull. Am. Phys. Soc. 2, 7, 406 (1962). (LADC-5313)

- 62-33A Knetko, Edward A.  
BAND MODEL FOR ANOMALOUS THERMAL EXPANSION IN THE HEAVY METALS.  
Bull. Am. Phys. Soc. 2, 7, 557 (1962). (LADC-5462)
- 62-34A Knight, Jere D.  
SOME CONSIDERATIONS ON THE PRODUCTION OF HEAVY TRANSURANIUM  
ELEMENTS BY MULTIPLE NEUTRON CAPTURE IN A NUCLEAR EXPLOSION.  
Disc. Nucl. Chem. (AERE M-1078, Abstr. 36, p. 67) (1962).  
(LADC-5402)
- 62-35A Leachman, Robert B.  
SOME RECENT DEVELOPMENTS IN FISSION PHYSICS.  
Trans. Am. Nucl. Soc. 5, 1, 19-20 (1962). (LADC-5267)
- 62-36A McQueen, Robert G., Marsh, Stanley Peter, and Wackerle, Jerry.  
HUGONIOT EQUATION OF STATE OF GERMANIUM.  
Bull. Am. Phys. Soc. 2, 7, 447 (1962). (LADC-5386)
- 62-37A Mader, Charles L.  
HYDRODYNAMIC HOT SPOT AND SHOCK INITIATION OF HOMOGENEOUS  
EXPLOSIVES.  
Bull. Am. Phys. Soc. 2, 7, 447 (1962). (LADC-5351)
- 62-38A Manley, John H.  
 $Cl^{12}(He^3,n)O^{14}$  REACTION AT 18, 22, AND 25 MEV.  
Bull. Am. Phys. Soc. 2, 7, 270 (1962). (LADC-5253)
- 62-39A Minshall, F. Stanley and Billings, James J.  
GUN TECHNIQUE FOR LOW-PRESSURE SHOCK HYDRODYNAMICS.  
Bull. Am. Phys. Soc. 2, 7, 260 (1962). (LADC-5231)
- 62-40A Mjolsness, Raymond C. and Dreicer, Harry.  
FORMATION OF DRIFT INSTABILITIES DUE TO COLLISIONAL RELAXA-  
TION OF HIGH ENERGY PARTICLES.  
Bull. Am. Phys. Soc. 2, 7, 140-1 (1962). (LADC-5072)
- 62-41A Motz, Henry T., Journey, Edward T., and Carter, Robert E.  
NEUTRON CAPTURE GAMMA RAYS FROM LEAD ISOTOPES.  
Bull. Am. Phys. Soc. 2, 7, 11 (1962). (LADC-5155)

- 62-42A Mullins, Lawrence J., Jr., Leary, Joseph A., Morgan, Arthur N.,  
and Maraman, William J.  
ELECTROREFINING OF PLUTONIUM METAL.  
Am. Chem. Soc. Abstracts of Papers 141, 18L (1962).  
(LADC-5280)
- 62-43A Nobles, Ralph A.  
LONG-RANGE PARTICLES FROM NUCLEAR FUSION.  
Bull. Am. Phys. Soc. 2, 7, 304 (1962). (LADC-5151)
- 62-44A Osher, John E.  
HIGH-VELOCITY PLASMA INJECTION AND TRAPPING EXPERIMENTS IN A  
PICKET FENCE MAGNETIC FIELD.  
Bull. Am. Phys. Soc. 2, 7, 142 (1962). (LADC-5067)
- 62-45A Paxton, Hugh C.  
LOS ALAMOS FAST CRITICAL REACTOR.  
Trans. Am. Nucl. Soc. 5, 1, 29-30 (1962). (LADC-5256)
- 62-46A Penneman, Robert A. and Jones, Llewellyn H.  
INFRARED STUDY OF AQUEOUS CYANO AND CYANO-CHLORO COMPLEXES  
OF NICKEL(II).  
Am. Chem. Soc. Abstracts of Papers 141, 14-15M (1962).  
(LADC-5179)
- 62-47A Putnam, Thomas M., Kemp, Edwin L., Quinn, Warren E., and  
Ribe, Fred L.  
EXTRAPOLATION OF THE SCYLLA MAGNETIC COMPRESSION EXPERIMENT  
SCYLLA IV.  
Bull. Am. Phys. Soc. 2, 7, 147 (1962). (LADC-5077)
- 62-48A Ragan, George L. and Carmichael, Byron M.  
SOME EFFECTS PECULIAR TO THE LIQUID METAL FUEL OF LAMPRE-I.  
Trans. Am. Nucl. Soc. 4, 365 (1962). (LADC-4994)
- 62-49A Reitz, John R. and Stone, Phillip M.  
ELASTIC SCATTERING OF SLOW ELECTRONS BY CESIUM ATOMS.  
Bull. Am. Phys. Soc. 2, 7, 530 (1962). (LADC-5473)

- 62-50A Ribe, Fred L., Kemp, Edwin L., Putnam, Thomas M., and Quinn, Warren E.  
FAST MAGNETIC COMPRESSION EXPERIMENTS IN RELATION TO PLASMA WITH POSITIVE ENERGY BALANCE.  
Bull. Am. Phys. Soc. 2, 7, 147 (1962). (LADC-5081)
- 62-51A Roberts, Thomas R., Sydoriak, Stephen G., and Sherman, Robert H.  
He<sup>3</sup> SCALE OF TEMPERATURE.  
Temp., Its Meas. Control Sci. Ind., 4th, Columbus, Ohio.  
March 27-31, 1961, v.3, p. 69-70 (1962). (LADC-4589)
- 62-52A Rosen, Louis, Flynn, Edward R., and Stewart, Leona.  
ELASTIC SCATTERING OF 14.5-MEV POLARIZED PROTONS.  
Bull. Am. Phys. Soc. 2, 7, 47 (1962). (LADC-5132)
- 62-53A Schreiber, Raemer E.  
NUCLEAR ENERGY IN SPACE PROPULSION.  
Trans. Am. Nucl. Soc. 5, 428-9 (1962). (LADC-5429)
- 62-54A Shunk, Edward R., Wagner, Robert T., and Hemmendinger, Arthur.  
Pb<sup>207</sup>(n,n')Pb<sup>207m</sup> AND Pb<sup>208</sup>(n,2n)Pb<sup>207m</sup> CROSS SECTIONS.  
Bull. Am. Phys. Soc. 2, 7, 334 (1962). (LADC-5239)
- 62-55A Stewart, Leona, Brolley, John E., Jr., and Rosen, Louis.  
d-He<sup>4</sup> ELASTIC SCATTERING FROM 6 TO 14 MEV.  
Bull. Am. Phys. Soc. 2, 7, 119 (1962). (LADC-5181)
- 62-56A Stewart, Leona and Rosen, Louis.  
INTERACTION OF 14.5 MEV POLARIZED PROTONS WITH C<sup>12</sup>.  
Bull. Am. Phys. Soc. 2, 7, 434-5 (1962). (LADC-5385)
- 62-57A Stovall, Emory J., Karr, Hugh J., and Knapp, Edward A.  
LIOUVILLE'S THEOREM AND MAXIMUM ACHIEVABLE ION DENSITIES IN MAGNETIC CONTAINMENT DEVICES.  
Bull. Am. Phys. Soc. 2, 7, 153 (1962). (LADC-5068)

- 62-58A Stratton, Thomas F.  
 PLASMA ELECTRON TEMPERATURES BY SPECTROSCOPY IN THE X-RAY REGION.  
 Temp., Its Meas. Control Sci. Ind., 4th, Columbus, Ohio,  
 March 27-31, 1961, v.3, p. 113-4 (1962). (LADC-4806)
- 62-59A Szklarz, Eugene G. and Giorgi, Angelo L.  
 SUPERCONDUCTING-TRANSITION TEMPERATURES OF HAFNIUM-NITRIDE  
 AND HAFNIUM-NITRIDE-ZIRCONIUM-NITRIDE SOLID SOLUTIONS.  
 Bull. Am. Phys. Soc. 2, 7, 176 (1962). (LADC-5212)
- 62-60A Taylor, R. Dean.  
 LOW-TEMPERATURE THERMOMETER UTILIZING THE MOSSBAUER EFFECT.  
 Temp., Its Meas. Control Sci. Ind., 4th, Columbus, Ohio,  
 March 27-31, 1961, v.3, p. 30-1 (1962). (LADC-4592)
- 62-61A Ulam, Stanislaw M.  
 OPEN PROBLEM  
Recent Advances in Game Theory, Papers delivered during the  
 Princeton University Conf., October 4-6, 1961, p. 223 (1962).  
 (LADC-5263)
- 62-62A Wackerle, Jerry and Hughes, Darrell S.  
 SHOCK-WAVE COMPRESSION OF HIGH-DENSITY ARGON GAS.  
 Bull. Am. Phys. Soc. 2, 7, 447 (1962). (LADC-5387)
- 62-63A Wegner, Harvey E., Britt, Harold C., and Schlaer, William  
 Joseph.  
 SEMICONDUCTOR DETECTOR RESPONSE TO FISSION FRAGMENTS.  
 Bull. Am. Phys. Soc. 2, 7, 36-7 (1962). (LADC-5154)
- 62-64A Wherritt, Charles R., Field, Richard E., and Lyle, Alvin R.  
 NEW HOT LABORATORY FACILITIES AT LOS ALAMOS.  
 Trans. Am. Nucl. Soc. 5, 302-3 (1962). (LADC-5442)



- 62-65A Wilson, Mahlon and Thorn, Linas.  
ALPHA-GAMMA TRANSFER SYSTEMS.  
Trans. Am. Nucl. Soc. 4, 241 (1962). (LADC-4866)
- 62-66A Yarnell, John L., Warren, John L., and Koenig, Seymour H.  
SEARCH FOR IMAGES OF THE FERMI SURFACE IN THE PHONON SPECTRUM  
OF ALUMINUM.  
Bull. Am. Phys. Soc. 2, 7, 343 (1962). (LADC-5251)

ADDENDUM

- Add-1 Anderson, Ernest C., Schuch, Robert L., Fisher, William R., and Langham, Wright H.  
RADIOACTIVITY OF PEOPLE AND FOODS.  
Hearings, Spec. Subcommit. Radiation, Joint Commit. At. Energy, 85th Congr., 1st Sess., May 27-June 3, 1957, Nature of Radioactive Fallout and Its Effect on Man, p. 752-64. (LADC-2748)
- Add-2 Baggett, Lester M., Dunaway, Robert E., Ferrell, Robert B., and Phillips, James A.  
COLUMBUS I.  
Conf. Thermonucl. Reactions, UCRL, Livermore, California, February 7-9, 1955, p. 15-20. TISE, 1955, Decl. 1959 (WASH-289). (LADC-NN-171)
- Add-3 Baggett, Lester M. and Van Duren, Allan.  
HIGH GRADIENT MAGNETIC INDUCTION MACHINE.  
Conf. Controlled Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 192-4. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-150)
- Add-4 Baker, Donald A., Sawyer, George A., and Stratton, Thomas F.  
LOW VOLTAGE-GRADIENT PINCHING IN METAL-WALLED SYSTEMS.  
Proc. Intern. Conf. Peaceful Uses At. Energy, 2nd, Geneva, 32, 34-9 (1958). (LADC-3357)
- Add-5 Baker, Richard D.  
STATEMENT.  
Hearings, Joint Commit. At. Energy, 87th Congr., 1st Sess., February 21-March 3, 1961, Development, Growth, and State of the Atomic Energy Industry, p. 283-8. (LADC-NN-198)

- Add-6 Boyer, Keith, Hammel, Jay E., Longmire, Conrad, Nagle, Darragh, Ribe, Fred L., and Riesenfeld, Werner B.  
EXPERIMENTAL AND THEORETICAL ACCELERATION OF PLASMAS INTO VACUUM.  
Controlled Thermonucl. Conf., Naval Research Laboratory, Washington, D. C., February 3-5, 1958, p. 140-67.  
TISE, 1958 (TID-7558). (LADC-NN-125)
- Add-7 Boyer, Keith, Elmore, William C., Little, Edward M., and Quinn, Warren E.  
NEUTRONS FROM PLASMA COMPRESSED BY AN AXIAL MAGNETIC FIELD (SCYLLA).  
Progr. Nucl. Energy, Ser. XI. Plasma Phys. Thermonucl. Res. 1, 208-15 (1959). (LADC-3663)
- Add-8 Boyer, Keith, Nagle, Darragh E., and Ribe, Fred L.  
TURBULENT-PINCH PROGRAM.  
Conf. Controlled Thermonucl. Reactions, Berkeley, California, February 20-23, 1957, p. 91-5. TISE, 1957, Decl. 1959 (TID-7536, Pt. 2). (LADC-NN-134)
- Add-9 Bradbury, Norris E.  
ATOMIC POWER FOR DEFENSE.  
Ordnance 43, 233, 735-7 (1959). (LADC-NN-200)
- Add-10 Bradbury, Norris E.  
LETTER TO JAMES T. RAMEY.  
Hearings, Joint Commit. At. Energy Commis., 86th Congr., 2nd Sess., October, 1960, Future Role of the Atomic Energy Commission Laboratories, p. 226. (LADC-NN-199)
- Add-11 Bradbury, Norris and Schreiber, Raemer.  
[TESTIMONY] ON ROVER.  
Staff Rept. Commit. Sci. Astronaut., House of Representatives, 87th Congr., 1st Sess., May 9, 1961. Union Calendar No. 138, House Report 377. 13 p.  
(LADC-NN-217)

- Add-12     Briscoe, William L. and Stratton, Thomas F.  
               RADIO FREQUENCY PINCH.  
               Conf. Thermonucl. Reactions, UCRL, Livermore, California,  
               February 7-9, 1955, p. 22-3. TISE, 1955, Decl. 1959  
               (WASH-289).     (LADC-NN-169)
- Add-13     Brueckner, Keith A., Lockett, Andrew M., and Rotenberg,  
               Manuel.  
               PROPERTIES OF FINITE NUCLEI. I.  
               Phys. Rev. 121, 255-69 (1961).     (LADC-5699)
- Add-14     Brueckner, Keith A. and Watson, Kenneth M.  
               SOLUTIONS OF THE BOLTZMANN EQUATION.  
               Conf. Controlled Thermonucl. Reactions, Princeton Univer-  
               sity, October 17-20, 1955, p. 269-94. TISE, 1955, Decl.  
               1959 (TID-7503).     (LADC-NN-154)
- Add-15     Brueckner, Keith A., Lockett, Andrew M., and Rotenberg,  
               Manuel.  
               TOTAL ENERGIES AND OTHER PROPERTIES OF FINITE NUCLEI.  
               Proc. Intern. Conf. Nuclidic Masses, McMaster University,  
               Hamilton, Ontario, September 12-16, 1960, p. 299-316.  
               (LADC-5701)
- Add-16     Buchsbaum, Solomon J. and Sawyer, George A.  
               PROBLEMS OF GAS PURITY IN PLASMA PHYSICS AND TECHNOLOGY.  
               Symp. Major Effects of Minor Constituents on the Proper-  
               ties of Mater., Atlantic City, June 26, 1961, ASTM, Spec.  
               Tech. Pub. 304, p. 54-61 (1961).     (LADC-5115)
- Add-17     Bullis, William Murray.  
               HIGH VELOCITY SHOCK PRODUCTION.  
               Conf. Controlled Thermonucl. Reactions, Berkeley,  
               California, February 20-23, 1957, p. 442-51. TISE, 1957,  
               Decl. 1959 (TID-7536, Pt. 2).     (LADC-NN-132)
- Add-18     Burkhardt, Louis C., Dunaway, Robert E., Hagerman, Donald C.,  
               and Phillips, James A.  
               COLUMBUS I PRIME.  
               Conf. Controlled Thermonucl. Reactions, Princeton Univer-  
               sity, October 17-20, 1955, p. 169-76. TISE, 1955, Decl.  
               1959 (TID-7503).     (LADC-NN-162)

- Add-19 Burkhardt, Louis C. and Lovberg, Ralph.  
COLUMBUS S-4 EXPERIMENTS.  
Controlled Thermonucl. Conf., Naval Research Laboratory,  
Washington, D. C., February 3-5, 1958, p. 26-35. TISE,  
1958 (TID-7558). (LADC-NN-129)
- Add-20 Burkhardt, Louis C., Sawyer, George A., and Stratton, Thomas F.  
ELECTROMAGNETIC RADIATION FROM THE PERHAPSATRON.  
Conf. Thermonucl. Reactions, Princeton University, October  
26-27, 1954, p. 68-74. TIS, 1955, Decl. 1959 (WASH-184).  
(LADC-NN-180)
- Add-21 Burkhardt, Louis C. and Lovberg, Ralph H.  
FIELD CONFIGURATION AND STABILITY STUDIES OF A LINEAR DIS-  
CHARGE.  
Progr. Nucl. Energy, Ser. XI. Plasma Phys. Thermonucl.  
Reactions 1, 405-15 (1959). (LADC-3401)
- Add-22 Burkhardt, Louis C. and Lovberg, Ralph H.  
LONG-PERIOD DISCHARGE.  
Conf. Controlled Thermonucl. Reaction, Berkeley, California,  
February 20-23, 1957, p. 76-83. TISE, 1957, Decl. 1959  
(TID-7536, Pt. 2). (LADC-NN-135)
- Add-23 Burkhardt, Louis C., Lovberg, Ralph H., and Phillips, James A.  
MAGNETIC FIELD DISTRIBUTIONS IN A PINCH DISCHARGE.  
Conf. Controlled Thermonucl. Reactions, Berkeley,  
California, February 20-23, 1957, p. 65-75. TISE, 1957,  
Decl. 1959 (TID-7536, Pt. 2). (LADC-NN-136)
- Add-24 Burkhardt, Louis, Sawyer, George A., Stratton, Thomas F., and  
Williams, Arthur H.  
X-RAYS FROM THE PERHAPSATRON.  
Conf. Thermonucl. Reactions, UCRL, Livermore, California,  
February 7-9, 1955, p. 49-53. TISE, 1955, Decl. 1959  
(WASH-289). (LADC-NN-165)

- Add-25 Chase, David M., Wilets, Lawrence, and Edmonds, A. R.  
 ROTATIONAL OPTICAL MODELS FOR SCATTERING OF NEUTRONS BY DEFORMED NUCLEI.  
 Proc. Intern. Conf. Neutron Interactions with the Nucleus, Columbia University, New York, September 9-13, 1957, p. 57-61. TISE, 1958 (TID-7547). (LADC-2642)
- Add-26 Christenson, Conard W., Fowler, Eric B., Johnson, George L., Rex, Elgin H., and Vigil, Felix A.  
 SOIL ADSORPTION OF RADIOACTIVE WASTES AT LOS ALAMOS.  
 Hearings, Spec. Subcommit. Radiation Joint Commit. At. Energy, 86th Congr., 1st Sess., January 28-30, February 2-3, 1959. Industrial Radioactive Waste Disposal, p. 1254-71. (LADC-NN-201)
- Add-27 Colgate, Sam A.  
 PLASMA REACTOR PROMISES DIRECT ELECTRIC POWER.  
 Hearings, Subcommit. Res. Develop., Joint Commit. At. Energy, 86th Congr., 2nd Sess., March 22-25, 1960, p. 222-7. (LADC-NN-74)
- Add-28 Conner, Jerry P., Hagerman, Donald C., Honsaker, John L., Karr, Hugh J., Mize, Jack P., Osher, John E., Phillips, James A., and Stovall, Emory J., Jr.  
 OPERATIONAL CHARACTERISTICS OF THE STABILIZED TOROIDAL PINCH MACHINE - PERHAPSATRON S-4.  
 Progr. Nucl. Energy, Ser. XI. Plasma Phys. Thermonucl. Res. 1, 385-404 (1959). (LADC-3399)
- Add-29 Cranberg, Lawrence and Levin, Jules.  
 INELASTIC NEUTRON SCATTERING IN FISSIONABLE NUCLIDES.  
 Proc. Intern. Conf. Neutron Interactions with the Nucleus, Columbia University, New York, September 9-13, 1957, p. 219-25. TISE, 1958 (TID-7547). (LADC-NN-120)
- Add-30 Diven, Ben C.  
 MEASUREMENT OF  $\sigma_{\eta,\gamma}(E)/\sigma_{\eta f}(E)$  OF  $U^{235}$  FOR FAST NEUTRONS.  
 Proc. Intern. Conf. Neutron Interactions with the Nucleus, Columbia University, New York, September 9-13, 1957, p. 225-9. TISE, 1958 (TID-7547). (LADC-NN-119)

- Add-31 Dove, Richard C., Brasier, Robert I., and Baker, William E.  
SELECTION OF GAGES FOR STRAIN MEASUREMENT AT INTERIOR POINTS.  
Proc. Soc. Exp. Stress Anal. 19, 1, 189-90 (1962).  
(LADC-NN-109)
- Add-32 Dreicer, Harry.  
DIFFUSION OF CHARGED PARTICLES IN A MAGNETIC FIELD.  
Conf. Thermonucl. Reactions, UCRL, Livermore, California,  
February 7-9, 1955, p. 24-31. TISE, 1955, Decl. 1959  
(WASH-289). (LADC-NN-164)
- Add-33 Dreicer, Harry.  
ISOLATION OF HOT PLASMAS FROM MATERIAL WALLS BY THE USE OF  
INTERVENING PLASMAS.  
Controlled Thermonucl. Conf., Naval Research Laboratory,  
Washington, D. C., February 3-5, 1958, p. 46-55. TISE,  
1958 (TID-7558). (LADC-NN-115)
- Add-34 Dreicer, Harry.  
ON THE THEORY OF RUN-AWAY ELECTRONS.  
Progr. Nucl. Energy, Ser. XI. Plasma Phys. Thermonucl.  
Reactions 1, 491-507 (1959). (LADC-3355)
- Add-35 Dreicer, Harry.  
PLASMA IN EQUILIBRIUM.  
Conf. Controlled Thermonucl. Res., Princeton University,  
October 17-20, 1955, p. 507-11. TISE, 1955, Decl. 1959  
(TID-7503). (LADC-NN-116)
- Add-36 Dreicer, Harry.  
TEMPERATURE RELAXATION: A DESCRIPTION BASED ON THE FOKKER-  
PLANCK EQUATION.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg,  
Tennessee, June 4-7, 1956, p. 419-24. TISE, 1956, Decl.  
1959 (TID-7520, Pt. 2). (LADC-NN-114)
- Add-37 Dunaway, Robert E., Hagerman, Donald, and Phillips, James A.  
COLUMBUS II.  
Conf. Controlled Thermonucl. Reactions, Princeton Univer-  
sity, October 17-20, 1955, p. 177-9. TISE, 1955, Decl.  
1959 (TID-7503) (LADC-NN-163)

- Add-38 Dunaway, Robert E.  
 NEUTRON EXPERIMENTS WITH COLUMBUS I'.  
 Conf. Controlled Thermonucl. Reactions, Gatlinburg,  
 Tennessee, June 4-7, 1956, p. 127-30. TISE, 1956, Decl.  
 1959 (TID-7520, Pt. 1). (LADC-NN-145)
- Add-39 Elmore, William C., Little, Edward M., and Quinn, Warren E.  
 NEUTRON FROM PLASMA COMPRESSED BY AN AXIAL MAGNETIC FIELD  
 (SCYLLA).  
 Proc. Intern. Conf. Peaceful Uses At. Energy, 2nd, Geneva,  
32, 337-42 (1958). (LADC-3373)
- Add-40 Elmore, William C., Little, Edward M., and Quinn, Warren E.  
 SCYLLA.  
 Controlled Thermonucl. Conf., Naval Research Laboratory,  
 Washington, D. C., February 3-5, 1958, p. 305-6.  
 TISE, 1958 (TID-7558). (LADC-NN-159)
- Add-41 Finkelstein, David, Sawyer, George A., and Stratton, Thomas F.  
 VACUUM SPARK PLASMAS.  
 Conf. Controlled Thermonucl. Reactions, Berkeley, Cali-  
 fornia, February 20-23, 1957, p. 542. TISE, 1957,  
 Decl. 1959 (TID-7536, Pt. 2). (LADC-NN-122)
- Add-42 Godfrey, Lois E.  
 NEW REFERENCE TOOLS.  
 Bull. Spec. Libraries Assoc., Rio Grande Chap., 4, 3,  
 6-7 (January 1961). (LADC-NN-184)
- Add-43 Graves, Alvin C.  
 ROUND TABLE DISCUSSION OF THE CAPABILITIES OF MONITORING  
 NUCLEAR TESTS DURING A MORATORIUM.  
 Hearings, Spec. Subcommit. Radiation and Subcommit. Res.  
 Develop. Joint Commit. At. Energy, 86th Congr., 2nd Sess.,  
 April 19-22, 1960, Technical Aspects of Detection and  
 Inspection Controls of a Nuclear Weapons Test Ban, v. 1,  
 p. 187-221. (LADC-NN-202)



- Add-44 Graves, Glen A.  
COMMENTARY ON "NUCLEAR ROCKET ENVIRONMENT" PAPER BY FLAGG  
et al.  
Am. Inst. Environ. Sci., Proc. Nat. Meeting Hyper-  
Environments, p. c-28 (1960). (LADC-NN-218)
- Add-45 Graves, Glen A.  
NUCLEAR SAFETY CONSIDERATIONS IN ROVER FLIGHT TESTING.  
(Abstr.)  
Proc. Nucleonics in Flight Symp., Dallas, Texas, March,  
1961, p. 167 (1961). (LADC-4522)
- Add-46 Graves, Glen A.  
RADIATION PROBLEMS IN THE ROVER PROGRAM.  
Am. Rocket Soc., Paper No. 849-59, 13 p. (1959).  
(LADC-3715)
- Add-47 Graves, Glen A.  
SAFETY ASPECTS OF PROPULSION REACTOR FLIGHT TESTING.  
Am. Rocket Soc., Paper No. 1520-60, 19 p. (1960).  
(LADC-4522)
- Add-48 Griffin, James J.  
FISSION PHENOMENA AND NUCLEAR STRUCTURE.  
Proc. Intern. Conf. Nucl. Struct., Kingston, Ontario,  
August 29-September 3, 1960, p. 843-61. (LADC-4475)
- Add-49 Grover, George M.  
STATEMENT.  
Hearings, Subcommit. Res. Develop., Joint Commit. At.  
Energy, 86th Congr., 2nd Sess., March 22-25, 1960,  
p. 329-36. (LADC-NN-203)
- Add-50 Hagerman, Donald C., Livermore, Glen, Mather, Joseph W. and  
Williams, Arthur H.  
COLUMBUS II (STABILIZED PINCH).  
Conf. Controlled Thermonucl. Reactions, Berkeley,  
California, February 20-23, 1957, p. 84-90. TISE, 1957,  
Decl. 1959 (TID-7536, Pt. 2). (LADC-NN-161)

- Add-51 Hagerman, Donald and Mather, Joseph.  
STABILIZATION EXPERIMENTS WITH A LONGITUDINAL MAGNETIC FIELD  
ON THE PERHAPSATRON.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg,  
Tennessee, June 4-7, 1956, p. 368-72. TISE, 1956, Decl.  
1959 (TID-7520, Pt. 2). (LADC-NN-160)
- Add-52 Hall, David B.  
STATEMENT.  
Hearings, Subcommit. Res. Develop., Joint Commit. At.  
Energy, 86th Congr., 2nd Sess., March 22-25, 1960,  
p. 165-9. (LADC-NN-204)
- Add-53 Hansen, Gordon E.  
REVIEW OF NEUTRON THERMALIZATION WORK AT LOS ALAMOS.  
Symp. Application of Pulsed Neutron Source Techniques,  
2nd, LRL, Berkeley, California, December 4-5, 1958,  
p. 125-6 (1959) (UCRL-5665). (LADC-NN-189)
- Add-54 Holladay, John C.  
PICKET FENCE.  
Conf. Thermonucl. Reactions, Princeton University, October  
26-27, 1954, p. 87-99. TIS, 1955, Decl. 1959 (WASH-184).  
(LADC-NN-177)
- Add-55 Holladay, John.  
SWIRL IN THE PICKET FENCE.  
Conf. Thermonucl. Reactions, UCRL, Livermore, California,  
February 7-9, 1955, p. 32-40. TISE, 1955, Decl. 1959  
(WASH-289). (LADC-NN-168)
- Add-56 Honsaker, J., Karr, Hugh J., Osher, John, Phillips, James A.,  
and Tuck, James L.  
NEUTRONS FROM A STABILIZED TOROIDAL PINCH.  
Controlled Thermonucl. Conf., Naval Research Laboratory,  
Washington, D. C., February 3-5, 1958, p. 17-25.  
TISE, 1958 (TID-7558). (LADC-NN-127)

- Add-57 Horstman, H. Robert.  
ADHESIVES FOR BONDING TO Kel-F.  
U.S.-U.K. Mutual Def. Agree. Mater. Conf. (AVIS-36),  
Sandia Corporation, Albuquerque, New Mexico, September  
12-16, 1960, p. 388-90. (LADC-5705)
- Add-58 Horstman, H. Robert.  
EXPERIMENTAL WORK WITH FROZEN PREMIXED ADHESIVES.  
AEC Integrated Contractors' Mater. Conf., Sandia Corpora-  
tion, Albuquerque, New Mexico, August 9, 1962, p. 18-9.  
(LADC-5706)
- Add-59 Jaynes, George E.  
INDUCTION MELTING OF URANIUM METAL AND ALLOYS UTILIZING  
UNCOOLED INDUCTION COILS.  
Proc. Metallurgy Information Meeting, Oak Ridge, Tennessee,  
April 11-13, 1955, p. 252-274. TISE, 1960, Decl. 1959  
(TID-7502, Pt. 1). (LADC-NN-137)
- Add-60 Jette, Eric R.  
METALLURGY RESEARCH PROGRAM TRENDS AT LOS ALAMOS SCIENTIFIC  
LABORATORY.  
Proc. Metallurgy Information Meeting, Oak Ridge, Tennessee,  
April 11-13, 1955, p. 899-905. TISE, 1960, Decl. 1959  
(TID-7502, Pt. 2, Del. 2). (LADC-NN-139)
- Add-61 Josephson, Vernal.  
ALL METAL NON-CONDUCTING DISCHARGE TUBES.  
Conf. Controlled Thermonucl. Reactions, Berkeley,  
California, February 20-23, 1957, p. 502-6. TISE, 1957,  
Decl. 1959 (TID-7536, Pt. 2). (LADC-NN-131)
- Add-62 Josephson, Vernal.  
KAPITZA BATTERY RESEARCH.  
Conf. Controlled Thermonucl. Res., Princeton University,  
October 17-20, 1955, p. 512-7. TISE, 1955, Decl. 1959  
(TID-7503). (LADC-NN-157)

- Add-63      Keepin, George Robert.  
 INSTRUMENTATION FOR PULSED NEUTRON WORK AT LOS ALAMOS. Pt. I.  
 Symp. Application of Pulsed Neutron Source Techniques, 2nd,  
 LRL, Berkeley, California, December 4-5, 1958, p. 154-61.  
 (UCRL-5665)    (LADC-NN-187)
- Add-64      Keepin, George Robert.  
 INTERPRETATION OF DELAYED NEUTRON PHENOMENA.  
 Proc. Intern. Conf. Neutron Interactions with the Nucleus,  
 Columbia University, New York, September 9-13, 1957,  
 p. 130-5. TISE, 1958 (TID-7547).    (LADC-NN-121)
- Add-65      Kerr, Eugene C. and Taylor, R. Dean.  
 MOLAR VOLUME AND EXPANSION COEFFICIENT OF LIQUID He<sup>3</sup>.  
 Ann. Phys. 20, 450-63 (1962).    (LADC-5369)
- Add-66      Langham, Wright H. and Anderson, Ernest C.  
 POTENTIAL HAZARD OF WORLD-WIDE Sr<sup>90</sup> FALLOUT FROM WEAPONS  
 TESTING.  
 Hearings, Spec. Subcommit. Radiation, Joint Commit. At.  
 Energy, 85th Congr., 1st Sess., June 4-7, 1957, Nature  
 of Radioactive Fallout and Its Effect on Man, p. 1348-72.  
 (LADC-NN-206)
- Add-67      Langham, Wright H. and Anderson, Ernest C.  
 Sr-90 AND Cs-137 IN RELATION TO THE PROBLEM OF WORLD-WIDE  
 RADIOACTIVE FALLOUT.  
 Hearings, Spec. Subcommit. Radiation, Joint Commit. At.  
 Energy, 85th Congr., 1st Sess., May 27-June 3, 1957,  
 Nature of Radioactive Fallout and Its Effect on Man,  
 p. 751-2.    (LADC-NN-207)
- Add-68      Langham, Wright H. and Anderson, Ernest C.  
 STATEMENT.  
 Hearings, Spec. Subcommit. Radiation, Joint Commit. At.  
 Energy, 85th Congr., 1st Sess., May 27-June 3, 1957,  
 Nature of Radioactive Fallout and Its Effect on Man, p. 741-  
 51.    (LADC-NN-208)

- Add-69 Langham, Wright H.  
 TESTIMONY.  
 Hearings, Spec. Subcommit. Radiation, Joint Commit. At. Energy, 85th Congr., 1st Sess., June 4-7, 1957, Nature of Radioactive Fallout and Its Effect on Man, p. 1311-35. (LADC-NN-205)
- Add-70 Leachman, Robert B., Allen, Lew, Cowan, George A., Fisher, Philip C., Grundl, James, Hoffman, Marvin M., Koontz, Philip G., Neuer, John J., Sayeg, Joseph A., Stein, William E., Wagner, John J., Wyman, Marvin E., Balagna, John P., Carter, Robert E., Cranberg, Lawrence, Gilmore, James S., Hansen, Gordon E., Keepin, George Robert, Levin, Jules S., Orth, Charles J., Smith, Ronald K., Terrell, James, and Whetstone, Stanley L., Jr.  
 NEUTRONS AND RADIATIONS FROM FISSION.  
 Proc. Intern. Conf. Peaceful Uses At. Energy, 2nd, Geneva 15, 331-9 (1958). (LADC-3141)
- Add-71 Longmire, Conrad.  
 INSTABILITIES OF IDEALLY - DIAMAGNETIC BODIES.  
 Conf. Thermonucl. Reactions, UCRL, Livermore, California, February 7-9, 1955, p. 11-4. TISE, 1955, Decl. 1959 (WASH-289). (LADC-NN-172)
- Add-72 Longmire, Conrad.  
 REMARKS ON STABILITY OF DIAMAGNETIC BODIES IN MAGNETIC FIELDS.  
 Conf. Thermonucl. Reactions, Princeton University, October 26-27, 1954, p. 103-5. TIS, 1955, Decl. 1959 (LADC-NN-175) (WASH-184)
- Add-73 Longmire, Conrad.  
 STATIC PINCH.  
 Controlled Thermonucl. Conf., Naval Research Laboratory, Washington, D. C., February 3-5, 1958, p. 67-8. TISE, 1958 (TID-7558). (LADC-NN-128)

- Add-74 Longmire, Conrad.  
THEORY OF INSTABILITY IN THE GUIDING-CENTER PICTURE.  
Conf. Controlled Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 257-9. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-153)
- Add-75 Lovberg, Ralph H.  
RF PINCH EXPERIMENTS.  
Conf. Controlled Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 188-91. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-118)
- Add-76 Lovberg, Ralph, Burkhardt, Louis, Sawyer, George, and Stratton, Thomas F.  
STABILIFY STUDIES WITH LONGITUDINAL MAGNETIC FIELD ON A STRAIGHT PINCH.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg, Tennessee, June 4-7, 1956, p. 308-24. TISE, 1956, Decl. 1959 (TID-7520, Pt. 1). (LADC-3173)
- Add-77 Marshall, John.  
ACCELERATION OF PLASMA INTO VACUUM.  
Controlled Thermonucl. Conf., Naval Research Laboratory, Washington, D. C., February 3-5, 1958, p. 301-4. TISE, 1958 (TID-7558). (LADC-NN-126)
- Add-78 Mather, Joseph W.  
DIAGNOSTICS OF THE CONFINEMENT AND HEATING OF A PLASMA BY A RISING AXIAL MAGNETIC FIELD (ORTHOGONAL PINCH).  
Nucl. Fusion 1, 233-56 (1961). (LADC-4910)
- Add-79 Mather, Joseph W.  
PINCH MEASUREMENTS.  
Conf. Controlled Thermonucl. Reactions, Princeton, University, October 17-20, 1955, p. 180-7. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-117)
- Add-80 Mihalcz, John and Mills, Carroll B.  
CRITICALITY OF LOW ENRICHMENT U<sup>235</sup> IN HYDROGEN.  
Nucl. Sci. Eng. 11, 95-6 (1961). (LADC-4756)

- Add-81 Morgan, Maxine.  
KAPITZA BATTERIES.  
Conf. Thermonucl. Reactions, UCRL, Livermore, California,  
February 7-9, 1955, p. 41-7. TISE, 1955, Decl. 1959  
(WASH-289). (LADC-NN-167)
- Add-82 Newell, John F., Christenson, Conard W., and Mathews, Everett  
R.  
LABORATORY STUDIES ON REMOVAL OF PLUTONIUM FROM LAUNDRY  
WASTES.  
Hearings, Spec. Subcommit. Radiation, Joint Commit. At.  
Energy, 86th Congr., 1st Sess., January 28-30, February  
2-3, 1959. Industrial Radioactive Waste Disposal, p.  
1788-96. (LADC-NN-209)
- Add-83 Ogle, William, and Argo, Harold.  
TESTIMONY.  
Developments in the Field of Detection and Identification  
of Nuclear Explosions (Project Vela) and Relationship to  
Test Ban Negotiations, Summary analysis of Hearings,  
July 25-27, 1961, 87th Congr., 2nd Sess., 68 p.,  
Washington, GPO, 1962. (LADC-NN-210)
- Add-84 O'Keefe, Richard L., Freed, J. Arthur, Canova, Madeleine,  
Zerwekh, Charles, Jr., and Hamrick, Lillian.  
PANEL DISCUSSION ON TRANSLATIONS.  
Bull. Spec. Libraries Assoc., Rio Grande Chap. 3, 3,  
4-8 (December 1959). (LADC-NN-185)
- Add-85 Reading, Leo M., Mathews, Everett R., Christenson, Conard W.,  
and Newell, John F.  
ACTIVATED SLUDGE TREATMENT OF RADIOACTIVE LAUNDRY WASTE.  
Hearings, Spec. Subcommit. Radiation, Joint Commit. At.  
Energy, 86th Congr., 1st Sess., January 28-30, February 2-  
3, 1959. Industrial Radioactive Waste Disposal, p. 1797-  
1801. (LADC-1449)

- Add-86 Reithel, Robert J., Blackburn, James H., Seay, Glenn E., and Skolnick, Saul.  
CURRENT PAUSE IN AN EXPLODING WIRE.  
Exploding Wires: Based on Conf. Exploding Wire Phenomena, Boston, April 2-3, 1959, Chace, William G. and Moore, Howard K. (eds) (Plenum Press, New York) (1959).  
(LADC-3751)
- Add-87 Rosenbluth, Marshall N.  
ADIABATIC INVARIANTS.  
Conf. Controlled Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 295. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-152)
- Add-88 Rosenbluth, Marshall N.  
DIFFUSION IN VELOCITY SPACE.  
Conf. Controlled Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 111-2. TISE, 1955, Decl. 1959 (TID-7503) (LADC-NN-156)
- Add-89 Rosenbluth, Marshall N.  
NONLINEAR EFFECTS.  
Conf. Controlled Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 296. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-151)
- Add-90 Rosenbluth, Marshall N. and Longmire, Conrad L.  
STRUCTURE OF HYDROMAGNETIC SHOCKS.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg, Tennessee, June 4-7, 1956, p. 131-3. TISE, 1956, Decl. 1959 (TID-7520, Pt. 1). (LADC-NN-144)
- Add-91 Rosenbluth, Marshall N.  
THEORY OF THE STABILITY OF A PINCH WITH A LONGITUDINAL MAGNETIC FIELD AND CONDUCTING WALL.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg, Tennessee, June 4-7, 1956, p. 260-4. TISE, 1956, Decl. 1959 (TID-7520, Pt. 1). (LADC-NN-143)



- Add-92 Sawyer, George A. and Stratton, Thomas F.  
 LOW GRADIENT PINCH PROGRAM.  
 Controlled Thermonucl. Conf., Naval Research Laboratory,  
 Washington, D. C., February 3-5, 1958, p. 56-66. TISE,  
 1958 (TID-7558). (LADC-NN-174)
- Add-93 Schofield, Aldred E.  
 LOW INDUCTANCE PARALLEL SPARK GAP STUDIES.  
 Conf. Controlled Thermonucl. Reactions, Berkeley,  
 California, February 20-23, 1957, p. 507-11. TISE, 1957,  
 Decl. 1959 (TID-7536, Pt. 2). (LADC-NN-130)
- Add-94 Schreiber, Raemer E.  
 REVIEW OF PROJECT ROVER.  
 I.R.E. Trans. Nucl. Sci. 9, 1, 16-20 (1962).  
 (LADC-NN-217)
- Add-95 Schreiber, Raemer E.  
 STATEMENT.  
 Hearings, Subcommit. Res. Develop., Joint Commit. At.  
 Energy, 86th Congr., 2nd. Sess., March 22-25, 1960,  
 p. 275-81. (LADC-NN-213)
- Add-96 Schreiber, Raemer E. and Ogle, William E.  
 TESTIMONY.  
 Hearings, Subcommit. Res., Develop. Radiation, Joint  
 Commit. At. Energy, 87th Congr., 1st Sess., August 28-29,  
 1961, Nuclear Energy for Space Propulsion and Auxiliary  
 Power, p. 55-7. (LADC-NN-211)
- Add-97 Schreiber, Raemer E.  
 TESTIMONY.  
 Next Ten Years in Space, 1959-1969. Staff Rept. Select  
 Commit. Astronaut. Space Exploration, Washington, GPO,  
 1959, p. 172-4. (House Doc. 115, 86th Congr., 1st Sess.)  
 (LADC-NN-212)
- Add-98 Schulte, Harry F.  
 DISPOSAL OF WASTE INTO THE ATMOSPHERE.  
Disposal of Radioactive Wastes, Vienna, IAEA (1960).  
 (LADC-3995)

- Add-99 Scott, Franklin R.  
HOMOPOLAR GENERATOR.  
Conf. Thermonucl. Reactions, UCRL, Livermore, California,  
February 7-9, 1955, p. 48. TISE, 1955, Decl. 1959  
(WASH-289). (LADC-NN-166)
- Add-100 Scott, Franklin Robert, Brousseau, Armand T., Little, Edward M.,  
and Schofield, Aldred E.  
METHOD FOR THE TIME DEPENDENT ANALYSIS OF BROADENED SPECTRAL  
LINES.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg, Ten-  
nessee, June 4-7, 1956, p. 460-9. TISE, 1956, Decl. 1959  
(TID-7520, Pt. 2). (LADC-NN-141)
- Add-101 Scott, Franklin Robert.  
"TOTEMPOLE" THE SHOCK PREHEATED LINEAR PINCH SYSTEM.  
Conf. Controlled Thermonucl. Reactions, Berkeley,  
California, February 20-23, 1957, p. 432-41. TISE, 1957,  
Decl. 1959 (TID-7536, Pt. 2). (LADC-NN-133)
- Add-102 Withdrawn
- Add-103 Stovall, Emory J., Jr.  
STARK EFFECT BROADENING OF THE HYDROGEN SPECTRUM LINES IN  
THE PERHAPSATRON.  
Conf. Thermonucl. Reactions, Princeton University, October  
26-27, 1954, p. 62-7. TIS, 1955, Decl. 1959 (WASH-184).  
(LADC-NN-181)
- Add-104 Stratton, Thomas F.  
SPECTROMETRIC DETERMINATION OF ELECTRON TEMPERATURES ABOVE  
100 EV.  
Spectrometric Measurements at High Temperatures, Dickerman,  
Philip J. (ed) (University of Chicago Press), p. 99-112  
(1960). (LADC-4179)

- Add-105 Stratton, William R.  
 INSTRUMENTATION FOR PULSED NEUTRON WORK AT LOS ALAMOS. Pt. II.  
 Symp. Application of Pulsed Neutron Source Techniques,  
 2nd, LRL, Berkeley, California, December 4-5, 1958,  
 p. 162-6 (UCRL-5665). (LADC-NN-192)
- Add-106 Suydam, Bergen R.  
 ON THE STABILITY OF THE DIFFUSE PINCH.  
 Progr. Nucl. Energy, Ser. XI. Plasma Phys. Thermonucl.  
 Reactions 1, 431-9 (1959). (LADC-NN-183)
- Add-107 Suydam, Bergen R.  
 STABILITY OF A LINEAR PINCH WITH CONTINUOUS  $\beta$ -FIELD.  
 Controlled Thermonucl. Conf., Naval Research Laboratory,  
 Washington, D. C., February 3-5, 1958, p. 36-45. TISE,  
 1958 (TID-7558). (LADC-NN-124)
- Add-108 Taschek, Richard F.  
 PRESENT STATUS OF MEASUREMENTS OF THE FAST NEUTRON CROSS  
 SECTION.  
 Proc. Intern. Conf. Neutron Interactions with the Nucleus,  
 Columbia University, New York, September 9-13, 1957,  
 p. 14-8. TISE, 1958 (TID-7547). (LADC-NN-123)
- Add-109 Taschek, Richard F.  
 STATEMENT.  
 Hearings, Spec. Subcommit. Radiation, Subcommit. Res.  
 Develop., Joint Commit. At. Energy, 86th Congr., 2nd Sess.,  
 April 19-22, 1960, Technical Aspects of Detection and In-  
 spection Controls of a Nuclear Weapons Test Ban, p. 350-66.  
 (LADC-NN-214)
- Add-110 Terrell, James.  
 DISTRIBUTION OF FISSION NEUTRON NUMBERS.  
 Proc. Intern. Conf. Neutron Interactions with the Nucleus,  
 Columbia University, New York, September 9-13, 1957,  
 p. 125-30. TISE, 1958 (TID-7547). (LADC-2880)

- Add-111 Terrell, James.  
STATUS OF MEASUREMENTS OF  $\bar{\gamma}$  AND  $\sigma(\eta, \gamma)$  FOR FAST NEUTRONS.  
Proc. Conf. Phys. Breeding, October 19-21, 1959, p. 33-50  
(1960) (ANL-6122). (LADC-PUB-225)
- Add-112 Trigger, Kenneth R.  
MULTI-ELECTRODE DISCHARGES.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg,  
Tennessee, June 4-7, 1956, p. 598-604. TISE, 1956,  
Decl. 1959 (TID-7520, Pt. 2). (LADC-NN-140)
- Add-113 Tuck, James L.  
LOS ALAMOS ACTIVITIES.  
Conf. Thermonucl. Reaction, UCRL, Livermore, California,  
February 7-9, 1955, p. 7-10. TISE, 1955, Decl. 1959  
(WASH-289). (LADC-NN-173)
- Add-114 Tuck, James L.  
PICKET FENCE.  
Conf. Thermonucl. Reactions, Princeton University,  
October 26-27, 1954, p. 77-86. TIS, 1955, Decl. 1959  
(WASH-184). (LADC-NN-178)
- Add-115 Tuck, James L.  
RECENT DEVELOPMENTS IN THE PINCH EFFECT.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg, Ten-  
nessee, June 4-7, 1956, p. 22-7. TISE, 1956, Decl. 1959  
(TID-7520, Pt. 1). (LADC-NN-147)
- Add-116 Tuck, James L.  
REPORT ON PERHAPSATRON ACTIVITIES.  
Conf. Thermonucl. Reactions, Princeton University,  
October 26-27, 1954, p. 44-61. TIS, 1955, Decl. 1959  
(WASH-184). (LADC-NN-182)
- Add-117 Tuck, James L.  
REVIEW OF CONTROLLED THERMONUCLEAR RESEARCH AT LOS ALAMOS.  
Progr. Nucl. Energy, Ser. XI. Plasma Phys. Thermonucl.  
Res. 1, 66-103 (1959). (LADC-3487)

- Add-118 Tuck, James L.  
 STABILITY OF PLASMA IN A MAGNETIC FIELD.  
 Conf. Thermonucl. Reactions, Princeton University, October 26-27, 1954, p. 100-2. TIS, 1955, Decl. 1959 (WASH-184). (LADC-NN-176)
- Add-119 Tuck, James L.  
 STATEMENT.  
 Hearings, Subcommit. Res. Develop., Joint Commit. At. Energy, 86th Congr., 2nd Sess., March 22-25, 1960, p. 98. (LADC-NN-215)
- Add-120 Tuck, James L.  
 SUMMARY OF THE REVIEW GIVEN AT PRINCETON, OCTOBER 17, 1955.  
 Conf. Controlled Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 163-8. TISE, 1956, Decl. 1959 (TID-7503). (LADC-NN-158)
- Add-121 Ulam, Stanislaw M.  
 STATEMENT.  
 Hearings, Subcommit. Res. Develop., Joint Commit. At. Energy, 86th Congr., 2nd Sess., March 22-25, 1960, p. 282-5. (LADC-NN-216)
- Add-122 Ungnade, Herbert E., Loughran, E. Dan, and Kissinger, Leonard W.  
 HYDROGEN BONDING IN B-NITRO ALCOHOLS. II. ASSOCIATION IN SOLUTION.  
 J. Phys. Chem. 66, 2643-45 (1962). (LADC-5329)
- Add-123 Van Duren, Allan.  
 MAGNETIC INDUCTANCE MACHINE.  
 Conf. Thermonucl. Reactions, UCRL, Livermore, California, February 7-9, 1955, p. 21. TISE, 1955, Decl. 1959 (WASH-289). (LADC-NN-170)
- Add-124 Wagner, John J.  
 EFFECT OF STORAGE BANK CAPACITY AND EXTERNAL INDUCTANCE ON THE BEHAVIOR OF PINCH MACHINES.  
 Conf. Controlled Thermonucl. Reactions, Gatlinburg, Tennessee, June 4-7, 1956, p. 104-26. TISE, 1956, Decl. 1959 (TID-7520, Pt. 1). (LADC-NN-146)

- Add-125 Watson, Kenneth M.  
STUDIES OF PLASMA STABILITY BY THE LOS ALAMOS THEORETICAL GROUP.  
Conf. Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 250-6. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-155)
- Add-126 Whitmer, Romaine F. and Karr, Hugh J.  
ELECTRON BEAM PROBE EXPERIMENT.  
Conf. Controlled Thermonucl. Reactions, Princeton University, October 17-20, 1955, p. 427-32. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-148)
- Add-127 Whitmer, Romaine F.  
MICROWAVE DIAGNOSTICS AT 60 KMc/SEC.  
Conf. Controlled Thermonucl. Res., Princeton University, October 17-20, 1955, p. 418-26. TISE, 1955, Decl. 1959 (TID-7503). (LADC-NN-149)
- Add-128 Wieneke, John R.  
ENERGY STORAGE STUDIES.  
Conf. Thermonucl. Reactions, Princeton University, October 26-27, 1954, p. 75-6. TIS, 1955, Decl. 1959 (WASH-184). (LADC-NN-179)
- Add-129 Wyld, Henry W., Jr., and Watson, Kenneth M.  
IONIZATION AND HEATING OF A PLASMA IN A MAGNETIC FIELD.  
Conf. Controlled Thermonucl. Reactions, Gatlinburg, Tennessee, June 4-7, 1956, p. 335-59. TISE, 1956, Decl. 1959 (TID-7520, Pt. 2). (LADC-NN-142)
- Add-130 Zinn, John and Rogers, Raymond N.  
THERMAL INITIATION OF EXPLOSIVE.  
J. Phys. Chem. 66, 2646-53 (1962). (LADC-5333)
- Add-131 Zukas, Eugene G.  
THE MECHANICAL PROPERTIES OF URANIUM-RICH URANIUM-MOLYBDENUM ALLOYS.  
Proc. Metallurgy Information Meeting, Oak Ridge, Tennessee, April 11-13, 1955, p. 204-17. TISE, 1960, Decl. 1959 (TID-7502, Pt. 1). (LADC-NN-138)

AUTHOR INDEX

AAMODT, Rodney Lee  
57-33, 62-1

ADAMS, Warren H.  
60-1

AGNEW, Lewis  
62-263, 62-1A

AIELLO, William P.  
57-39

AJZENBERG-SELOVE, Fay  
59-1A, 60-1A, 61-1

ALBRECHT, Edward Daniel  
61-176

ALEI, Mohammed  
62-2

ALLEN, Lew, Jr.  
57-1, Add-70

ALLEN, Robert C.  
57-2, 57-3, 57-1A, 57-24A,  
58-1, 58-131, 58-29A,  
59-104, 60-217

ALLEN, Thomas Hunter  
59-1, 60-2

ALLEN, William Douglas  
58-2

ALLISON, Adrian G.  
58-236

ALLISON, James T.  
58-221

ALLRED, John C.  
58-4, 58-201

ALVAREZ-TOSTADO, C.  
57-108

ANDERSON, Ernest C.  
57-4, 57-5, 57-6, 57-8,  
57-116, 58-5, 58-6, 58-7, 58-8,  
58-9, 58-10, 58-11, 58-155,  
58-159, 58-233, 59-2, 59-3,  
59-124, 59-125, 59-161, 59-221,  
60-2, 60-255, 60-256, 61-2,  
61-3, 61-134, 62-3, 62-138,  
62-181, 62-283, 62-284, Add-1,  
Add-66, Add-67, Add-68

ANDERSON, John W.  
61-4, 61-161

ANDERSON, Robert W.  
59-4, 60-247, 62-14, 62-3A

ARGO, Harold V.  
58-36A, 59-5, Add-83

ARMSTRONG, Alice H.  
57-2A, 58-90, 58-23A, 59-6,  
59-2A, 59-3A, 60-3, 60-217,  
61-5, 61-1A, 62-112

ARMSTRONG, Dale E.  
57-7, 57-32

ARNOLD, George P.  
58-282, 58-67A, 59-217, 61-6,  
62-192, 62-193, 62-200, 62-237

ARNOLD, James R.  
57-8, 60-256, 62-3, 62-181

ARONSON, Anna  
58-1A

ASHENHURST, Robert L.  
58-176

ASHKIN, Julius  
57-38

ASPREY, Larned B.  
57-7, 57-9, 57-32, 57-162,  
57-164, 57-165, 57-11A, 58-12,  
58-210, 60-4, 60-5, 61-7,  
61-8, 61-9, 61-10, 61-138,  
61-2A, 62-4, 62-5, 62-141,  
62-165, 62-205

AUXIER, John A.  
58-243

BACON, Barbara A.  
62-9

BAGGETT, Lester M.  
Add-2, Add-3

BAHCALL, John  
59-6A

BAILAR, John C., Jr.  
61-66

BAKER, Donald A.  
59-4A, 60-2A, 60-3A, 61-11,  
61-3A, 61-22A, 62-6, 62-23A,  
Add-4

BAKER, Floyd B.  
57-10, 57-134, 60-6, 60-42A,  
61-12, 62-194

BAKER, George A., Jr.  
58-13, 58-14, 59-7, 59-8,  
59-9, 60-7, 60-8, 60-9, 60-10,  
61-13, 61-14, 61-15, 61-16,  
61-4A, 62-7

BAKER, Richard D.  
58-15, 58-179, 59-156, 60-11,  
61-163, Add-5

BAKER, William E.  
62-61, Add-31

BALAGNA, John P.  
61-51, Add-70

BALCOMB, J. Douglas  
60-4A, 61-17

BALESTRINI, Silvio J.  
60-12

BALL, William  
60-13

BALLARD, Douglas W.  
59-197

BALLARD, Harold N.  
58-16

BALLINGER, Edwin R.  
60-51A, 62-8

BAME, Samuel J., Jr.  
57-11, 57-12, 57-13, 57-3A,  
58-17, 59-10, 59-11, 60-14,  
60-6A

BANNERMAN, Daniel E.  
62-145



BARD, Richard J.  
 59-117, 60-56A, 61-18

BARFIELD, Walter David  
 59-13A, 60-7A, 62-9, 62-186

BARGER, Jack W.  
 62-14A

BARLOUTAUD, Roland  
 60-15

BARNES, John W.  
 61-51

BARNETT, Martin D.  
 59-12, 60-16

BARR, Donald W.  
 61-19, 61-51

BARRETT, Paul  
 62-190

BASMANN, Norma J.  
 62-160, 62-161

BATISTA, Roy I.  
 61-20

BATTAT, Morris E.  
 59-13, 59-5A, 62-10

BAUER, Simon H.  
 58-18, 61-5A, 62-67

BAYHURST, Barbara P.  
 57-24, 59-14, 61-51, 61-192,  
 62-11

BEARDEN, Alan J.  
 61-21, 61-44A, 61-46A

BEAUCHAMP, Richard K.  
 57-39, 57-40

BEAUMONT, Arthur J.  
 60-45

BEERY, Jerome G.  
 62-6A

BELL, George I.  
 59-15, 59-22A, 61-22, 62-183

BELL, Virginia L.  
 57-75, 58-26A, 59-83

BELLE, Jack  
 58-1A

BELLMAN, Richard  
 57-14, 58-19, 58-20, 58-21,  
 59-16, 59-17

BENDER, John H.  
 60-17, 60-18

BENDT, Philip J.  
 58-22, 58-23, 58-24,  
 58-25, 58-201, 58-282, 58-67A,  
 59-18, 59-217, 61-23, 61-24,  
 62-12, 62-13, 62-77, 62-78

BENNETT, Elbert W.  
 60-268

BENZ, Robert  
 58-163, 59-19, 61-25, 61-26,  
 61-27, 61-28

BENZIGER, Theodore M.  
 61-29

BERG, Lloyd  
 61-47A

BERGENSTAL, Delbert M.  
 57-76, 57-122

BERGSTRESSER, Karl S.  
 57-15, 58-26, 59-20

BERNSTEIN, Jeremy  
58-27

BERTINO, James P.  
59-117, 61-18

BETHE, Hans A.  
57-16, 60-19

BEYER, William A.  
61-6A, 62-2A

BEYSTER, John R.  
57-16

BIDWELL, Camille  
57-64, 57-65

BIDWELL, Richard M.  
62-14, 62-15, 62-274,  
62-3A, 62-10A

BIEDENHARN, Lawrence C.  
57-177, 62-9

BIGGERS, Wendell A.  
57-1

BILD, Charles F.  
59-197

BILLINGS, James J.  
61-7A, 62-39A

BIRKELAND, Stephen P.  
60-20, 61-30

BIRKHOFF, Garrett  
57-17

BIVINS, Robert L.  
57-4A, 57-18A, 58-174,  
58-175, 59-63A

BJORKLUND, Carl W.  
57-18, 58-124, 58-163,  
59-21, 60-41A, 61-112

BLACK, Ralph E.  
58-138

BLACKBURN, James H.  
60-199, 62-16, 62-219, Add-86

BLACKWELL, Charles D.  
59-22

BLAIR, Alexander  
59-23

BLAIR, Allen G.  
62-17, 62-18

BLAIS, Normand C.  
60-21, 60-22, 62-19

BLATZ, Laurence A.  
61-31, 62-20

BLUMBERG, Leroy N.  
59-24, 59-6A

BLUMBERG, Sydel  
58-28

BOHMAN, Verle Rudolph  
61-252

BONDELID, Rollon O.  
59-13

BOONE, Irene U.  
57-19, 57-20, 57-5A, 58-29,  
58-30, 58-31, 58-240, 59-7A,  
60-23, 60-8A, 61-64, 61-8A,  
62-21, 62-50

BOWERSOX, David F.  
58-163, 59-25

BOWMAN, Allen L.  
61-32, 62-90

BOWMAN, Melvin G.  
60-143, 60-30A, 61-33, 61-78,  
61-147, 62-152, 62-153

BOYER, Keith  
 57-6A, 57-35A, 57-44A,  
 58-237, 58-238, 59-26,  
 59-152, 59-8A, 60-24, 62-22,  
 Add-6, Add-7, Add-8

BOYES, George Wesley, Jr.  
 60-25

BRADBURY, John N.  
 58-2A

BRADBURY, Norris E.  
 58-32, Add-9, Add-10, Add-11

BRADFORD, Donald H.  
 61-34

BRASIER, Robert I.  
 61-35, 62-61, Add-31

BRENNAN, Virginia  
 59-27

BRICKER, Clark E.  
 57-21, 57-22, 57-189,  
 57-190, 58-269

BRIESMEISTER, Arthur C.  
 60-26, 62-232

BRIM, Warren W.  
 61-197

BRINKLEY, Forrest W.  
 59-9A, 61-9A

BRISCOE, William L.  
 58-33, 60-27, Add-12

BRITT, Harold C.  
 62-23, 62-4A, 62-63A

BRIXNER, Berlyn B.  
 59-28, 59-204, 60-28, 61-36,  
 62-201

BROLLEY, John E., Jr.  
 57-23, 57-149, 57-7A, 57-37A,  
 57-38A, 57-42A, 58-34, 58-217,  
 58-3A, 59-170, 59-2A, 59-72A,  
 60-29, 60-30, 60-31, 60-88,  
 60-214, 60-217, 60-236, 61-37,  
 61-38, 61-208, 61-209, 62-260,  
 62-55A

BRONISZ, Stanley E.  
 59-4, 60-32

BRONSON, John C.  
 62-24

BROUSSEAU, Armand T.  
 Add-100

BROUT, Robert H.  
 60-33, 62-25, 62-26

BROWN, Clarence J., Jr.  
 58-193

BROWN, Edward A.  
 62-27, 62-114

BROWN, Harry L.  
 57-158

BROWN, Leon J.  
 62-1

BROWN, Ronald E.  
 57-1A

BROWNE, Charles I.  
 57-24, 61-19, 61-51

BROWNE, James C.  
 59-64A, 60-224

BROWNLEE, Robert R.  
 59-29, 60-50, 61-39

BRUCE, Warren  
 62-5A

BRUECKNER, Keith A.  
57-25, 58-35, 58-36, 58-37,  
59-47A, 60-34, 60-35, 60-36,  
Add-13, Add-14, Add-15

BRUMLEY, Farrell B.  
60-6A

BRUNDIGE, Edward L.  
58-111, 59-30, 59-31

BRYANT, Ernest A.  
58-4A, 59-32, 60-37, 61-51

BRYANT, Howard C.  
62-6A

BUBERNAK, Joseph  
58-38, 58-5A, 60-38, 62-28,  
62-29

BUCHSBAUM, Solomon J.  
Add-16

BUCK, Warren L.  
58-245

BUCKLAND, Carl W., Jr.  
59-33

BULLIS, William Murray  
Add-17

BUNKER, Don L.  
60-39, 61-18, 62-19, 62-30,  
62-31, 62-7A

BUNKER, Merle E.  
57-26, 57-8A, 58-62, 59-34,  
59-10A, 59-23A, 60-9A,  
60-15A, 61-10A, 62-32, 62-8A

BURKHARDT, Louis C.  
57-27, 58-39, 58-40, 58-41,  
58-6A, 59-11A, 59-12A, 60-10A,  
61-11A, 62-33, 62-9A, Add-18,  
Add-19, Add-20, Add-21,  
Add-22, Add-23, Add-24, Add-76

BURWELL, Calvin C.  
61-4, 62-14, 62-274, 62-3A,  
62-10A

BUSEY, Harold M.  
59-94

BUSSARD, Robert W.  
58-42, 58-43, 58-44, 59-35,  
60-40, 61-40, 62-34, 62-35,  
62-36, 62-37

BUSTAMANTE, Santiago Jose  
60-41

BYATT, William J.  
62-11A

BYERS, Cleo C.  
60-42, 60-271

CAIRD, Robert S.  
60-83, 62-84

CALKIN, Brant  
62-250

CALLAHAN, P. X.  
58-273

CALLIHAN, Dixon  
58-45

CAMPBELL, Arthur W.  
57-92, 57-128, 60-62, 61-41,  
61-42, 62-276

CAMPBELL, Evan E.  
59-36, 59-37, 59-38

CANDELA, George A.  
59-39

CANOVA, Madeleine  
Add-84

CARLSON, Bengt  
61-43, 62-38

CARLSON, Richard R.  
57-28

CARMICHAEL, Byron M.  
59-5A, 59-38A, 62-12A,  
62-48A

CARNALL, William T.  
58-46, 58-7A

CARR, Lee  
62-8

CARTER, David S.  
57-17, 58-4, 58-47

CARTER, Robert E.  
57-16, 58-8A, 58-63A, 59-40,  
59-13A, 59-54A, 59-55A,  
60-173, 60-7A, 60-11A,  
60-40A, 61-27A, 62-186,  
62-41A, Add-70

CASHWELL, Edmond D.  
59-41

CAWLEY, John Duval  
59-203

CHAMPION, Glenn R.  
60-43

CHANDRASEKHAR, Subrahmanyam  
57-29, 58-48

CHAPMAN, Kenneth R.  
59-94

CHASE, David M.  
57-30, 57-31, 59-9A, 58-49,  
Add-25

CHASTAIN, Joel  
58-45

CHERRY, Ivan J.  
58-19

CHEZEM, Curtis G.  
58-39A, 60-44, 61-44

CHICK, Helen J.  
62-39

CHISHOLM, Ronald C.  
57-11A

CHRISMAN, Robert H.  
58-77

CHRISTENSEN, Eldon L.  
60-45, 62-29A

CHRISTENSON, Conard W.  
58-50, 58-22A, 59-42, 59-74,  
59-75, 59-32A, 60-1, 60-84,  
60-12A, 61-45, 61-39A, 62-40,  
Add-26, Add-82, Add-85

CHRISTIAN, Richard S.  
57-67

CHUPP, Warren W.  
58-130

CLARK, Arthur J., Jr.  
59-38A

CLARK, Robert A.  
59-14A

CLARK, William D.  
57-10A

CLAYTON, George D.  
60-226

CLAYTON, John C.  
58-1A

CLIFTON, David G.  
61-46, 62-41

COCHRAN, Donald R. F.  
 58-9A, 59-15A, 60-53, 60-60,  
 60-178, 61-85, 61-13A,  
 62-42, 62-85, 62-190

COFFIN, Don O.  
 58-51

COFFINBERRY, Arthur S.  
 58-52, 58-247, 59-179, 60-46,  
 61-47, 61-170

COLEMAN, James S.  
 57-7, 57-32, 57-11A, 60-47,  
 60-13A, 61-187

COLGATE, Sam A.  
 57-33, Add-27

COLVIN, Ted H.  
 58-242

CONE, Arvine F.  
 59-197

CONNER, Jerry P.  
 57-12A, 58-53, 58-54, 59-16A,  
 Add-28

COOK, James M.  
 59-17A

COOK, R. P.  
 58-102

COON, James H.  
 57-13A, 57-33A, 58-55,  
 59-13, 59-18A, 60-48

COOPER, Ralph S.  
 61-48, 61-49, 61-12A, 62-43,  
 62-44, 62-45, 62-46

CORIELL, Sam R.  
 59-212

COTTER, Theodore P.  
 59-43

COWAN, Clyde L., Jr.  
 57-34, 57-35, 57-36, 57-144,  
 58-211, 58-216, 59-162, 60-198

COWAN, George A.  
 58-56, 59-19A, 60-37, 61-50,  
 61-51, 62-47, Add-70

COWAN, Helen D.  
 60-181

COWAN, Robert D.  
 57-37, 57-38, 58-57, 58-58,  
 58-59, 59-18, 61-52

COWAN, Robert E.  
 59-44, 60-49, 62-48

COWPERTHWAITTE, Michael  
 61-5A

COX, Arthur N.  
 59-29, 60-50, 61-39, 62-49

COX, Clarice W.  
 60-132

COX, Summers H.  
 62-50

CRAIG, Bobby G.  
 61-62

CRAIG, Paul P.  
 59-45, 59-20A, 59-21A, 60-51,  
 60-52, 60-53, 60-60, 60-61,  
 60-177, 60-179, 61-53, 61-54,  
 61-55, 61-61, 61-13A, 61-14A,  
 62-51, 62-52, 62-53, 62-107,  
 62-190, 62-261, 62-13A

CRALLEY, Lester V.  
 60-226

CRAMER, Eugene M.  
 58-52, 58-60, 59-63, 59-179,  
 60-54, 60-70, 61-56

CRANBERG, Lawrence  
 57-39, 57-40, 57-156, 57-27A,  
 58-61, 58-10A, 58-11A, 58-12A,  
 58-37A, 58-54A, 58-55A,  
 58-60A, 59-13, 59-46, 59-47,  
 59-48, 59-138, 59-22A, 59-70A,  
 60-55, 60-56, 60-57, 60-227,  
 60-1A, 60-14A, 60-17A, 61-1,  
 61-57, 61-58, 61-59, 62-275,  
 Add-29, Add-70

CRANSTON, Frederick P., Jr.  
 58-62, 59-23A, 60-15A, 62-14A

CRAWFORD, Crayton M.  
 58-63, 59-49

CROMER, Don T.  
 57-41, 57-42, 57-43, 57-44,  
 57-118, 58-128, 59-50, 59-51,  
 59-52, 59-53, 59-54, 59-173,  
 59-185, 60-58, 60-59, 60-16A,  
 61-60, 61-144, 61-145, 61-146,  
 61-206, 62-54, 62-147

CROSBY, Glenn Arthur  
 60-159

CUBITT, Richard L.  
 59-10, 59-11

CUMMINS, Ben Milton  
 62-224

CUNNINGHAM, Burris Bell  
 60-5

DAMASK, Arthur C.  
 61-65

DANIELS, William R.  
 59-27A, 59-41A

DARRIULAT, P.  
 62-239

DASH, Jay Gregory  
 57-45, 57-46, 57-174, 57-45A,  
 57-46A, 58-64, 58-65, 58-143,  
 58-249, 59-45, 59-21A, 60-60,  
 60-61, 60-177, 61-61, 61-14A

DAUB, Guido H.  
 59-12, 60-16, 60-20, 61-30

DAVIDSON, Keith V.  
 62-14, 62-3A

DAVIDSON, Norman  
 59-59, 62-129

DAVIS, Roland William  
 57-13A, 57-33A, 58-55, 59-18A,  
 60-6A

DAVIS, William C.  
 57-47, 58-123, 60-62, 61-41,  
 61-42, 61-62, 62-55, 62-276

DAY, Robert B.  
 57-14A, 57-25A, 57-28A, 58-66,  
 59-13, 59-55, 59-120, 60-63,  
 61-151

DEAL, James B.  
 62-56

DEAL, William E.  
 57-48, 57-49, 58-67, 58-13A,  
 61-63, 62-57

DEEM, Thomas E.  
 60-117

DeJUREN, James A.  
 61-49A

DeLAUER, Richard D.  
 58-42, 58-44

DEMUTH, Howard B.  
 60-4A, 61-17, 62-114

DES PREZ, Roger  
61-64

DICKINSON, James M.  
59-56, 59-57

DIENES, George Julian  
61-65

DIETRICH, Frank Sigel, III  
60-1A, 60-17A, 61-1

DIETRICH, Joseph J.  
58-94

DINEGAR, Robert H.  
58-214

DISMUKES, John P.  
61-66

DIVEN, Ben C.  
57-50, 58-68, 59-24A, 59-74A,  
60-64, 60-23A, 62-58,  
62-59, 62-117, 62-118,  
Add-30

DOMER, Floyd R.  
60-65

DOUGHERTY, John E.  
61-26A

DOUGLASS, Robert M.  
57-41, 57-51, 57-52, 57-53,  
57-54, 57-55, 57-56, 57-96,  
57-180, 61-25, 61-26,  
61-259, 61-26A, 62-60,  
62-196, 62-197, 62-30A

DOVE, Richard C.  
61-35, 62-61, Add-31

DOYLE, Thomas C.  
57-57

DREICER, Harry  
57-15A, 58-14A, 59-58, 59-25A,  
59-26A, 60-66, 60-67, 60-18A,  
62-62, 62-63, 62-64, 62-15A,  
62-16A, 62-40A, Add-32,  
Add-33, Add-34, Add-35,  
Add-36

DRIESNER, Allen R.  
58-69, 58-266, 59-210, 59-211,  
62-65, 62-134

DROPESKY, Bruce J.  
57-58, 58-119, 58-48A, 59-34,  
59-122, 59-27A, 60-68, 61-51,  
61-184, 61-10A, 62-32

DUFF, Russell E.  
57-59, 58-18, 58-70, 58-71,  
58-72, 58-73, 58-74, 58-15A,  
58-16A, 58-33A, 59-59, 59-60,  
59-28A, 59-29A, 61-67, 61-68,  
61-69, 61-70, 61-71, 61-203,  
61-5A, 62-66, 62-67, 62-68

DUNAWAY, Robert E.  
57-27, 58-75, Add-2, Add-18,  
Add-37, Add-38

DUNLAP, Howard L.  
61-33A

DURHAM, Franklin P.  
59-61, 59-94, 61-72

DUTLI, James W.  
57-60, 57-16A, 57-17A, 58-76,  
60-17

DYER, A. J.  
59-221

EDESKUTY, Frederick J.  
57-61, 58-77, 58-78, 58-108,  
59-13, 59-62, 59-68A, 60-69,  
60-230, 62-24, 62-69



EDLUND, Milton E.  
58-45

EDMONDS, A. R.  
58-49, Add-25

EDWARDS, Paul D.  
58-79, 58-17A, 60-17

ELIOT, Frankee P.  
58-169

ELIOT, Theodore S.  
58-169

ELLINGER, Finley H.  
57-9, 57-198, 58-52, 58-124,  
58-180, 58-181, 59-63,  
59-179, 59-219, 60-54, 60-70,  
61-73, 61-112, 61-176, 62-70

ELLIOTT, Dana E.  
57-60, 57-17A, 58-80, 58-18A,  
59-64, 61-74, 62-71

ELLIOTT, Guy R. B.  
58-19A, 60-71, 62-17A

ELLIOTT, Norman  
57-123

ELLIOTT, Reed O.  
58-81, 59-63, 59-112, 60-72,  
60-138, 61-75, 61-76, 61-97,  
61-99, 61-100, 62-72, 62-96,  
62-97, 62-98, 62-99, 62-199

ELLIOTT, Robert O.  
58-52

ELLIS, Walton P.  
60-19A, 62-18A

ELMORE, William C.  
58-82, 59-65, 59-8A, 60-24,  
Add-7, Add-39, Add-40

ENDERS, John W.  
60-73

ENGELKE, Morris J.  
60-258

ENGLE, Leon B.  
59-30A, 60-74, 61-15A, 61-16A

ENOCH, Jacob  
60-75, 60-76

ERICKSON, George F.  
59-157

ERICKSON, Nils  
62-52

ERNST, Frederick J., Jr.  
57-62

ERPENBECK, Jerome J.  
61-77, 62-73, 62-74, 62-75

EUTSLER, Bernard C.  
58-86

EVANS, Martha W.  
58-83, 59-66, 62-76

EVERETT, Cornelius J.  
59-41

FARAGGI, Henriette  
60-15, 62-239

FARMER, Garland Ray  
61-252

FARR, John D.  
59-67, 59-158, 60-77, 61-78

FEINSTEIN, Louis  
58-155

FELTHAUSER, Harry E.  
57-13A, 57-33A, 58-55

FERGUSON, William E.  
62-14, 62-3A

FERNALD, Robert A.  
61-58

FERRAN, Gilbert H.  
60-116

FERRELL, Robert B.  
Add-2

FICKETT, Wildon  
57-63, 58-84, 58-20A, 59-175,  
60-78

FIELD, Richard E.  
62-292, 62-64A

FIELDS, Paul R.  
58-46, 58-7A

FINGER, Harold B.  
61-40

FINKELSTEIN, David  
58-85, Add-41

FINNEGAN, Camille  
see - BIDWELL, Camille

FISCHEL, David  
61-244

FISHER, Philip C.  
59-13A, 59-30A, 59-54A,  
59-55A, 61-15A, 61-16A,  
Add-70

FISHER, William R.  
57-6, 58-5, Add-1

FITCH, Val Logsdon  
61-79

FITZGIBBON, Francis J.  
60-20A

FLAMAND, Gerard  
59-68

FLYNN, Edward R.  
62-77, 62-78, 62-6A, 62-52A

FOLDY, Leslie L.  
59-69

FORD, George P.  
57-24, 57-85, 57-86, 59-31A,  
60-79, 60-148, 61-17A

FORD, John O.  
62-187

FORD, Kenneth W.  
58-258, 59-9, 59-68, 59-69,  
59-70, 59-71, 59-72, 59-73,  
59-142, 59-35A, 59-53A, 61-18A

FOREMAN, Harry I.  
57-64, 57-65, 58-86, 58-87,  
58-171, 58-21A, 59-154, 60-80,  
60-81, 60-82, 61-80, 61-81,  
61-82, 62-79, 62-80, 62-81,  
62-82, 62-83

FOWLER, Clarence M.  
60-83, 61-83, 61-235, 61-272,  
62-84

FOWLER, Eric B.  
58-50, 58-22A, 59-74, 59-75,  
59-76, 59-32A, 60-1, 60-84,  
60-12A, 61-45, 61-84, Add-26

FOWLER, Joseph L.  
60-30

FOWLER, Richard Gidlert  
61-228

FOWLER, Robert D.  
61-95

FRANK, Robert M.  
60-85

FRANK, Thurman G.  
60-196

FRASCO, David L.  
59-122

FRAUENFELDER, Hans  
60-178, 61-85, 62-85

FREED, J. Arthur  
Add-84

FRENTROP, Arthur H.  
59-13

FRETWELL, James H.  
62-24

FRIAUF, Robert J.  
61-40A, 62-212

FRIED, Sherman  
57-9

FRIEDLANDER, Gerhart  
57-4A, 57-18A, 58-174, 58-175

FRIEDMAN, Harold L.  
58-88

FRIES, R. Jay  
60-86, 60-135, 60-139,  
61-131, 61-154, 62-86

FROMAN, Darol K.  
62-87

FRY, Otto E.  
59-117

FRYE, Glenn M., Jr.  
57-2A, 58-89, 58-90, 58-23A,  
59-6

FRYER, Edward M.  
58-281

FURCHNER, John E.  
57-66, 57-170, 61-201, 61-202,  
62-88, 62-89, 62-221, 62-223,  
62-224, 62-225

GALLAGHER, James D.  
62-115

GAMMEL, John L.  
57-25, 57-67, 57-68, 57-69,  
57-70, 58-35, 58-36, 58-37,  
58-91, 58-24A, 60-9, 60-34,  
60-35, 60-87, 60-88, 60-89,  
60-90, 60-150, 61-14, 61-16,  
61-37, 61-86, 61-87, 61-88,  
62-7

GARDNER, Ross D.  
58-275, 59-77

GARIN, A.  
62-239

GARN, Wray B.  
59-78, 60-83, 60-91, 62-84

GARRETT, Donald  
59-6A

GEER, William U.  
60-100

GERHOLD, George  
59-220

GIBNEY, Robert B.  
58-220, 61-213

GIEVER, Paul M.  
60-226

GILBERT, Homer E.  
58-243

GILLAND, Jerry R.  
59-79

GILLES, Paul W.  
57-113, 60-30A, 61-147,  
62-152, 62-153

GILMAN, Henry  
57-71, 58-92, 58-93, 58-94,  
58-95

GILMER, Ruth M.  
57-113

GILMORE, James S.  
57-24, 61-19, Add-70

GINOCCHIO, Joseph N.  
61-45A

GIORGI, Angelo L.  
57-19A, 60-270, 61-78, 62-90,  
62-59A

GJEVRE, John  
61-26A

GLASCOCK, R. Breck  
62-161

GLASS, James J.  
61-93

GLASS, Neel W.  
58-96, 61-19A

GLENDENNING, Norman K.  
60-14A

GLORE, J. Paul  
60-6A

GLOVER, Elsa M.  
62-19A

GOAD, Walter B.  
59-80

GODFREY, Lois E.  
62-216, Add-42

GOLDBLATT, Maxwell  
57-98, 58-133

GOLDHABER, Gerson  
57-23A, 58-130

GOLDHABER, Sulamith  
57-23A, 58-130

GOLDSTEIN, Louis  
57-72, 57-73, 58-97, 58-98,  
58-99, 58-25A, 59-81, 60-92,  
60-93, 61-89, 61-90, 61-91,  
61-92, 62-91, 62-92

GOLDSTEIN, Max T.  
58-100

GOODMAN, Albert  
59-178, 59-65A, 61-218

GOODMAN, Leon  
57-111

GORE, I. Y.  
58-203

GORE, James K.  
60-229, 61-93, 62-250

GORUM, Alvin E.  
57-74, 60-32

GOSSELIN, L.  
58-203

GOULD, Robert Gordon  
57-75, 57-76, 57-122, 57-20A,  
58-101, 58-102, 58-203,  
58-26A, 59-82, 59-83, 59-33A,  
59-34A, 60-94

GRAHAM, Ellis R.  
59-84, 59-85

GRAVES, Alvin C.  
Add-43

GRAVES, Glen A.  
57-77, 61-20A, 61-52A,  
Add-44, Add-45, Add-46,  
Add-47

GREEN, Alex E. S.  
58-103, 58-104, 58-244,  
59-142, 59-35A, 59-53A,  
60-273, 60-61A

GREEN, Jere L.  
58-200, 60-47A

GREEN, Walter V.  
59-86, 59-87

GREENBURG, Leonard  
60-226

GRIFFIN, James J.  
58-27A, 59-88, 59-89, 59-36A,  
60-95, 62-93, Add-48

GRILLY, Edward R.  
57-78, 58-178, 58-226, 59-90,  
60-245, 61-94, 61-167,  
61-169, 62-94, 62-95

GRIMM, Donald E.  
57-16A, 58-76

GRISON, Emmanuel  
61-95

GRITTON, George Vance  
60-190, 61-40A, 62-212

GROVER, George M.  
58-105, 59-91, 59-157,  
59-158, 60-195, 61-43A,  
Add-49

GRUNDL, James A.  
58-106, 60-96, 62-20A,  
Add-70

GSCHNEIDNER, Karl A., Jr.  
60-72, 60-138, 61-76, 61-96,  
61-97, 61-98, 61-99, 61-100,  
61-101, 61-102, 61-257, 62-96,  
62-97, 62-98, 62-99, 62-100,  
62-101, 62-237, 62-21A

GUEVARA, Francisco A.  
60-262

GURSKY, Judith C.  
58-190, 58-191, 62-23

GURSKY, Martin L.  
57-21A, 59-39A, 61-208, 61-21A,  
62-22A

GUTIERREZ, Conrado P.  
62-102

GYFTOPOULOS, Elias P.  
60-4A, 61-17

HADDAD, Eugene  
57-11, 57-3A, 57-22A, 58-17,  
59-92, 59-1A, 60-14

HAGERMAN, Donald C.  
58-53, 58-107, 59-93, 60-21A,  
60-22A, 60-38A, 60-46A,  
61-103, 61-37A, 62-103,  
62-104, Add-18, Add-28,  
Add-37, Add-50, Add-51

HAHN, Fred S.  
61-58

HAKKILA, Eero Arnold  
60-97, 60-98, 61-104, 62-105,  
62-106

HALE, Dorothy B.  
59-48A, 59-49A, 59-50A

HALL, David B.  
Add-52

HALL, William Stanley  
57-7A, 57-38A, 58-34,  
58-270, 58-64A, 59-75A,  
60-265, 60-58A, 61-165,  
61-34A, 62-172, 62-182

HAMMEL, Edward F., Jr.  
57-117, 58-108, 58-109,  
58-110, 58-32A, 59-20A,  
59-37A, 59-42A, 60-134,  
61-94, 61-105, 62-24, 62-69,  
62-107

HAMMEL, Jay E.  
60-2A, 60-3A, 61-11, 61-3A,  
61-22A, 62-6, 62-23A, Add-6

HAMMOND, R. Philip  
59-94, 59-38A, 62-14,  
62-108, 62-274, 62-24A

HAMRICK, Lillian  
Add-84

HANKS, Gale S.  
58-111, 59-30, 59-31, 60-133,  
61-20, 62-109, 62-188,  
62-25A

HANSBURY, Elizabeth  
57-137, 58-273, 59-115,  
59-116, 60-109, 60-110,  
60-185, 62-110, 62-139

HANSEN, Gordon E.  
58-112, 60-74, 60-99, 60-100,  
60-101, 60-102, 61-106,  
62-111, Add-53, Add-70

HARARY, Frank  
60-103, 60-104, 60-105

HARLOW, Francis H.  
57-79, 58-83, 59-66, 61-107,  
62-66, 62-76

HARLOW, James E.  
60-106

HARPER, Wallace T.  
57-169

HARRIS, Payne S.  
57-170, 57-29A, 58-30, 58-31,  
58-221, 58-240, 59-95,  
60-51A, 61-108, 61-109,  
61-186, 61-230, 62-8

HARRISON, B. Kent  
60-107, 60-108

HARRISON, Francis B.  
58-113, 58-36A, 59-5, 59-3A,  
60-198, 61-5

HARTMAN, Paul L.  
62-26A

HASKIN, Larry A.  
59-211

HAWES, Loren L.  
61-56

HAWKINS, Sara Beth  
58-231, 58-232, 58-234,  
59-187

HAYES, Bernard  
61-110

HAYES, Francis Newton  
57-71, 57-110, 57-137, 57-192,  
57-193, 58-11, 58-92, 58-93,  
58-94, 58-95, 58-114, 58-115,  
58-117, 58-245, 58-273,  
58-274, 59-12, 59-115, 59-116,  
59-181, 60-16, 60-20, 60-65,  
60-109, 60-110, 60-140,  
60-185, 61-30, 62-138, 62-139

HAYTER, Sidney W.  
59-117

HAZEN, Wayne C.  
58-179

HEAD, Earl L.  
57-80, 57-93, 57-94, 58-124,  
59-67, 60-113, 60-114,  
61-112, 61-113

HEALD, Walter R.  
60-37

HECKMAN, Harry Hughes  
61-5, 61-1A, 62-112

HELLER, Leon  
59-96, 59-39A, 60-111,  
62-22A

HELMER, Richard J.  
57-81

HEMMENDINGER, Arthur  
57-81, 58-68, 58-116, 60-64,  
62-54A

HEMPELMANN, Louis H.  
57-87, 62-143

HENDRIX, Gladys Sturdy  
61-176

HENKEL, Richard L.  
57-42A, 57-43A, 58-2, 58-106,  
59-13, 59-16A, 59-40A,  
59-69A, 60-232, 62-255

HENRICKSON, Angus V.  
58-179

HENSHALL, James B.  
59-48, 62-113

HESS, George K., Jr.  
62-114

HIEBERT, Richard D.  
57-82, 58-11, 58-117, 62-8,  
62-115

HILL, Benny J.  
60-89, 61-86, 62-7

HILL, David Lawrence  
57-83, 59-72

HILL, Franklin J.  
59-117

HIRT, Cyril W.  
62-66

HOCKETT, John E.  
59-97, 60-112, 62-116

HOERLIN, Herman  
58-118, 62-26A

HOFFMAN, Darleane C.  
57-84, 57-85, 57-86, 58-119,  
59-122, 59-27A, 59-41A,  
61-111, 62-27A

HOFFMAN, James M.  
61-197

HOFFMAN, Joseph G.  
57-87, 62-187

HOFFMAN, Marvin M.  
58-28A, 62-19A, 62-28A, Add-70

HOLLADAY, John C.  
57-88, 57-89, 57-90, 57-91,  
58-120, 58-121, 58-122,  
Add-54, Add-55

HOLLAND, Thomas E.  
57-92, 58-123

HOLLEY, Charles E., Jr.  
57-80, 57-93, 57-94, 58-124,  
59-67, 60-113, 60-114,  
60-234, 61-112, 61-113,  
62-119, 62-120

HOLM, Dale M.  
58-255

HONSAKER, John L.  
58-53, 58-125, Add-28,  
Add-56

HOOGERP, James C.  
61-23A

HOPKINS, John C.  
60-23A, 62-58, 62-59,  
62-117, 62-118

HORSTMAN, H. Robert  
Add-57, Add-58

HOSTETLER, Robert L.  
61-35A

HUBER, Elmer J., Jr.  
57-93, 57-94, 58-124, 59-67,  
60-113, 60-114, 61-112,  
61-113, 62-119, 62-120

HUEBNER, Walter F.  
61-114

HUES, Alvin D.  
59-77

HUGHES, Darrell S.  
58-126, 62-62A

HUGHES, Lora Belle  
58-50A

HUGHES, Vernon W.  
61-18A

HUMASON, Gretchen L.  
60-115, 61-115, 61-116, 62-121

HUMPHREY, James R.  
60-45

HUTCHINSON, Clyde A., Jr.  
59-39

HYATT, Edwin C.  
57-130, 58-127, 59-98, 59-99,  
59-100, 60-116, 61-175,  
61-226

IBERS, James A.  
58-128

IGEL, Eugene A.  
59-204, 60-117

IGO, George J.  
57-95, 57-23A, 58-129,  
58-130, 59-101, 60-118

IMLAH, Katherine  
60-119

ISRAEL, Harvey  
62-264

JACKSON, Betty S.  
57-19, 57-20, 57-5A, 58-30,  
58-31, 58-240, 62-21

JACKSON, Jasper A.  
60-120, 62-156

JACOBSON, Jack D.  
57-197, 58-279, 59-175,  
59-216

JAHODA, Franz C.  
60-121, 60-24A, 60-53A, 61-117,  
62-122, 62-246

JAMES, Dean B.  
62-29A



JAMES, Edward, Jr.  
61-251

JARBOE, C. Harry, Jr.  
57-192, 57-193, 58-273,  
58-274

JARMIE, Nelson  
57-1A, 57-24A, 58-1, 58-131,  
58-29A, 59-103, 59-104,  
59-1A, 60-122, 60-123,  
60-124, 60-217, 60-52A,  
61-118, 61-119, 61-120,  
61-232, 61-233, 61-24A

JARVIS, George A.  
60-125

JAYNES, George E.  
Add-59

JENNINGS, Hugh K.  
61-121

JENSEN, Carl R.  
60-116

JETTE, Eric R.  
Add-60

JOHNSON, George L.  
58-50, 58-22A, Add-26

JOHNSON, Karl William R.  
58-163, 58-51A, 59-105,  
60-175, 60-197, 61-122,  
61-25A

JOHNSON, Kenneth A.  
58-27

JOHNSON, Leah K.  
58-264

JOHNSON, Rowland E.  
57-96

JOHNSON, Vernon J.  
61-26A, 62-30A

JOHNSRUD, Alan E.  
58-190

JOHNSTON, Robert R.  
59-80, 61-123, 62-123, 62-31A

JONES, Llewellyn H.  
57-97, 57-98, 57-99, 57-100,  
57-101, 57-102, 58-132, 58-133,  
58-134, 58-135, 58-136, 58-137,  
58-197, 59-106, 59-107, 59-108,  
59-59A, 60-126, 60-127, 60-128,  
60-159, 60-160, 61-66, 61-124,  
61-125, 61-188, 61-197, 62-124,  
62-125, 62-126, 62-127, 62-128,  
62-167, 62-46A

JONES, Richard J.  
59-34A

JONES, Wesley M.  
62-129

JORDAN, Harry S.  
58-138, 58-139, 59-109

JOSEPHSON, Vernal  
58-140, Add-61, Add-62

JURNEY, Edward T.  
59-32A, 60-84, 61-27A, 62-41A

KABARA, D. Joseph  
57-122

KAHN, Milton  
57-19A, 59-19, 59-45A, 60-6,  
60-223, 61-122, 61-25A, 62-5A

KAHN, Miriam E.  
57-40A

KALABA, Robert  
57-14, 58-20, 58-21, 59-16,  
59-17

KALMUS, Ernest H.  
60-18, 60-129, 61-126

KAMMASH, Terry  
60-130

KARR, Hugh J.  
58-25, 58-53, 58-125, 60-25A,  
60-26A, 60-45A, 61-127,  
61-28A, 62-62, 62-32A,  
62-57A, Add-28, Add-56,  
Add-126

KASKAN, Walter E.  
62-130

KAUFMAN, Allan N.  
57-29, 58-48

KAUFMAN, Daniel E.  
60-131

KAY, Kingsley  
60-226

KAZEK, Chester S., Jr.  
57-120

KEENAN, Thomas K.  
57-7, 57-32, 57-103, 58-12,  
58-46, 58-210, 58-7A, 58-30A,  
59-110, 60-186, 61-9,  
61-128, 61-129, 61-187

KEEPIN, George Robert  
57-104, 57-105, 58-141,  
58-142, 58-31A, 59-111,  
60-132, 61-130, 62-131,  
Add-63, Add-64, Add-70

KEIL, Robert W.  
60-133

KELCHNER, Burton L.  
59-117

KELLER, William E.  
57-106, 58-143, 58-32A, 59-20A,  
59-37A, 59-42A, 60-60, 60-134,  
60-179, 61-105, 62-24, 62-107

KELLEY, Cecil W.  
60-45

KELLOGG, Martin P.  
59-30A

KELMAN, Leroy R.  
60-46

KEMME, Joseph E.  
62-274, 62-10A

KEMP, Edwin L.  
62-132, 62-215, 62-47A, 62-50A

KEMPTER, Charles P.  
57-107, 57-108, 58-81, 59-112,  
59-113, 59-146, 59-147, 60-86,  
60-135, 60-136, 60-137, 60-138,  
60-139, 60-161, 60-176, 60-239,  
61-76, 61-131, 61-154, 61-179,  
61-254, 62-65, 62-133, 62-134,  
62-135, 62-136, 62-137, 62-236

KERMAN, Arthur K.  
59-114

KERR, Eugene C.  
57-109, 58-144, 58-282,  
58-59A, 58-67A, 59-217, 61-132,  
Add-65

KERR, Vernon N.  
57-110, 57-137, 59-115, 59-116,  
60-109, 60-110, 60-140, 60-185,  
61-3, 62-138, 62-139

KEWISH, Ralph W.  
59-117

KIEHN, Robert M.  
58-145, 61-133

KILPATRICK, John E.  
58-108, 59-118

KING, L. D. Percival  
59-14A

KINSEY, Jimmy Lloyd  
58-223

KIRBY, Robert S.  
59-31, 62-109, 62-188, 62-25A

KIRCHER, John A.  
60-141, 60-56A

KIRKWOOD, John G.  
57-194, 57-195, 57-49A,  
58-58, 58-59, 58-278, 58-20A

KIRTON, Allen H.  
61-134

KISSINGER, Leonard W.  
57-111, 57-183, 57-184,  
58-146, 58-147, 58-148,  
58-149, 58-261, 58-62A,  
59-119, 59-206, 60-142,  
60-254, 61-135, Add-122

KISTER, James M.  
57-112

KLEINBERG, Robert  
59-209

KLINE, Mary Repar  
58-264

KLINE, Robert Joseph  
58-208, 59-160, 59-61A,  
60-191, 60-193, 60-194

KLOEPPER, Robert M.  
57-25A, 57-28A, 59-120

KMETKO, Edward A.  
58-266, 59-121, 61-136, 62-33A

KNAPP, Edward A.  
60-25A, 60-26A, 60-45A,  
61-127, 61-28A, 62-62, 62-32A,  
62-57A

KNIGHT, Herbert T.  
58-71, 58-73, 58-150, 58-151,  
58-152, 58-33A, 59-43A, 61-67,  
61-70, 61-137, 61-203

KNIGHT, Jere D.  
57-26A, 57-40A, 58-153, 58-9A,  
59-34, 59-122, 59-15A, 60-223,  
61-10A, 62-32, 62-42, 62-34A

KNOBELOCH, Gordon W.  
57-24, 61-51

KNOWLES, Charles M.  
58-18A, 59-64

KOCH, Leonard J.  
59-123

KOENIG, Seymour H.  
60-27A, 62-66A

KOLSKY, Harwood G.  
57-113

KONOPINSKI, Emil John  
59-71

KOONTZ, Philip G.  
59-30A, Add-70

KRESSIN, Ivan K.  
62-140

KRIKORIAN, Nerses H.  
57-107, 59-158, 59-191,  
60-143, 60-239, 60-240,  
61-113, 62-137, 62-154

KRUPKA, Milton C.  
 62-154

KRUSE, Ferdinand Hobert  
 60-4, 61-138, 61-139, 62-141

KRUSE, Herald W.  
 58-211, 58-36A, 59-5, 59-44A,  
 60-198

KRUSKAL, M.  
 58-154

KUBIS, Joseph T.  
 60-34, 60-35

KULWICH, Roman  
 58-155

LaMAR, Lawrence E.  
 57-7, 57-32, 61-177

LAMB, George L., Jr.  
 62-142

LAMBERT, Sheldon M.  
 57-47A

LAND, Cletis C.  
 60-54, 60-70, 62-70

LANDAHL, Charles E.  
 62-65, 62-134

LANE, A. M.  
 58-156

LANG, Ernest J.  
 57-24, 61-51

LANG, Harold J.  
 57-39

LANGER, Laurence M.  
 57-58

LANGHAM, Juliamarie  
 57-159, 57-160, 62-110, 62-159

LANGHAM, Wright Haskell  
 57-6, 57-114, 57-115, 57-116,  
 57-141, 57-147, 57-170, 58-29,  
 58-157, 58-158, 58-159, 58-160,  
 58-233, 58-52A, 59-3, 59-124,  
 59-125, 59-126, 59-127, 59-62A,  
 60-2, 60-82, 60-144, 60-145,  
 60-28A, 61-2, 61-140, 61-141,  
 61-142, 61-190, 61-216, 61-230,  
 62-143, 62-144, 62-207, 62-221,  
 62-222, 62-225, 62-278, Add-1,  
 Add-66, Add-67, Add-68, Add-69

LANNUTTI, Joseph  
 57-23A, 58-130

LANTER, Robert J.  
 62-145

LAQUER, Henry L.  
 57-117, 58-161, 59-128, 59-129,  
 60-106, 60-146, 60-147, 61-143,  
 62-146

LARKINS, John  
 62-8

LARSON, Allen C.  
 57-118, 59-50, 60-58, 60-59,  
 60-16A, 61-60, 61-75, 61-144,  
 61-145, 61-146, 61-206, 62-54,  
 62-147

LAWRENCE, Francine O.  
 57-85, 57-86

LAWRENCE, James N. P.  
 58-162, 61-230, 62-143, 62-148,  
 62-149

LAZAR, Norman H.  
 62-9A

LAZARUS, Roger B.  
 58-242, 59-17A, 59-20A, 60-85

LEACHMAN, Robert Briggs  
57-119, 57-120, 57-34A,  
58-188, 59-24, 59-6A, 60-148,  
61-17A, 61-56A, 62-150,  
62-35A, Add-70

LEARY, Joseph A.  
58-15, 58-163, 58-34A, 58-51A,  
59-19, 59-21, 59-25, 59-130,  
59-45A, 59-56A, 60-149,  
60-174, 60-175, 60-197,  
60-41A, 61-4, 61-28, 61-122,  
61-25A, 62-196, 62-197, 62-5A,  
62-42A

LEE, Clarence E.  
60-150, 60-29A

LEE, Paul  
57-140

LEHNER, Joseph  
57-121, 58-164, 59-131,  
60-151

LEITNAKER, James M.  
60-30A, 61-147, 62-151,  
62-152, 62-153, 62-154

LELAND, Wallace T.  
57-12, 59-148, 59-57A,  
60-217, 62-238, 62-6A

LEMONS, Joe Fred  
58-19A, 60-71, 60-120,  
62-156, 62-17A

LENZ, William H.  
61-148

LeROY, George V.  
57-76, 57-122

LeSTOURGEON, William L.  
61-149, 61-237, 61-238,  
61-240

LEVIN, Jules S.  
57-39, 57-40, 57-27A, 58-61,  
58-37A, 58-60A, 59-138, 59-139,  
59-70A, 62-275, Add-29, Add-70

LEVINSON, Leonard S.  
62-155

LEVY, Dorothy  
60-50A, 61-156

LEW, Marion S.  
58-38, 58-5A, 60-38, 62-28,  
62-29

LEWIS, Harold W.  
58-165, 58-166, 59-132, 59-133,  
59-46A, 60-152

LEWIS, Homer D.  
61-29A

LEWIS, W. Burton  
57-123, 59-39, 61-150, 61-40A,  
62-156, 62-212, 62-213

LIBBY, Willard F.  
57-4

LIER, Douglas W.  
60-38A

LIER, Ruth  
59-116

LILIENTHAL, James R.  
57-124, 59-134, 62-157

LILLY, Edith H.  
57-75, 58-26A, 59-83, 59-33A,  
61-80

LIND, David A.  
57-14A, 57-25A, 57-28A, 59-120,  
61-151

LINDER, Charles A.  
62-65, 62-134

LINDSEY, Jean A.  
59-36

LINDSTEN, Don C.  
61-39A

LINENBERGER, Gustave A.  
58-45, 60-125, 60-153

LITTLE, Edward M.  
58-82, 59-26, 59-8A, 59-60A,  
60-24, 60-121, 60-31A,  
60-48A, 61-152, 61-153,  
61-41A, 61-50A, 62-158,  
Add-7, Add-39, Add-40,  
Add-100

LIVERMORE, Glen  
Add-50

LOCKETT, Andrew M., III.  
59-47A, 60-36, Add-13, Add-15

LONADIER, Frank D.  
58-182, 58-44A

LONGMIRE, Conrad L.  
57-125, 57-150, 59-135,  
Add-6, Add-71, Add-72, Add-73,  
Add-74, Add-90

LORD, William B. H.  
61-95

LOTZ, L. Virginia  
see - BELL, Virginia

LOUCK, James D.  
60-154, 60-155

LOUGHRAN, E. Dan  
57-47A, 60-156, 60-254,  
62-282, Add-122

LOUIE, James  
62-72

LOVBERG, Ralph H.  
58-39, 58-40, 58-41, 58-35A,  
59-136, 59-11A, 59-12A, 60-10A,  
61-11A, 62-33, Add-19, Add-21,  
Add-22, Add-23, Add-75, Add-76

LOW, Francis Eugene  
58-167

LOWREY, William E.  
59-197

LUNSFORD, John L.  
61-154

LUSHBAUGH, Clarence C.  
57-126, 57-127, 57-140, 57-29A,  
58-168, 58-169, 59-48A, 59-49A,  
59-50A, 60-115, 60-157, 60-158,  
61-115, 61-116, 61-155, 61-230,  
62-159, 62-160, 62-161, 62-162,  
62-163

LUST, Reimar  
60-50A, 60-55A, 61-156, 62-164

LYLE, Alvin R.  
62-292, 62-64A

LYON, Luther L.  
62-211

McBEE, Earl T.  
58-260

McCLELLAND, Jean  
62-143

McCOY, Raymond D.  
57-10A

McCREARY, William J.  
58-170, 60-56A, 61-29A

McCULLOUGH, Roy L. 59-59A, 60-159, 60-160	McQUISTION, William E. 57-111, 61-135
McDONALD, Robert Ramsey 61-97, 61-99, 62-96, 62-97, 62-98	McWILLIAMS, Paul 62-172, 62-173, 62-233
McDOWELL, Robin S. 59-107, 61-197, 62-165, 62-166, 62-167	MADDY, James R. 62-160
MACE, Philip N. 62-168	MADER, Charles L. 60-156, 60-190, 60-277, 61-162, 62-37A
McGUIRE, Austin D. 58-36A, 59-5, 59-45, 59-21A, 60-198	MAGEE, Marguerite 58-171
McGUIRE, Joseph C. 57-107, 59-113, 60-161	MAIER, Clifford 60-102
McINTEER, Bertus B. 60-26, 60-162, 61-30A, 62-232	MALIN, Murray E. 57-92, 57-128
McKIBBEN, Joseph L. 61-157, 61-158	MANLEY, John H. 57-34A, 59-137, 60-165, 61-31A, 62-174, 62-38A
McLAREN, Eugene 58-132	MANN, Joseph B. 60-21, 60-22
McLEOD, John J. 62-169	MARAMAN, William J. 58-163, 58-172, 58-222, 58-277, 58-34A, 59-130, 59-156, 59-56A, 60-11, 60-163, 60-166, 60-174, 61-163, 62-42A
McMANUS, Hugh 59-114	MARGRAVE, John L. 61-8
MacMILLAN, Donald P. 61-159, 62-170	MARION, Jerry B. 58-37A, 59-138, 59-139
McNEAL, Robert J. 62-265	MARK, J. Carson 59-140
McNEESE, Wilbur D. 58-179, 60-163, 61-4, 61-160, 61-161	MARSH, Stanley Peter 60-164, 60-32A, 60-33A, 62-171, 62-36A
McQUEEN, Robert G. 57-188, 58-126, 58-213, 60-164, 60-32A, 60-33A, 61-273 62-171, 62-36A	

MARSHALL, John  
60-167, 60-34A, 61-153, 62-175, 62-24  
62-176, Add-77

MARTENSEN, Erich  
62-164

MARTIN, Duncan W.  
60-202

MARTIN, Robert E.  
62-11A

MARVIN, Horace Newell  
59-49A

MASTERS, Burton J.  
57-157, 60-35A, 61-164,  
61-196, 62-177

MATHER, Joseph W.  
57-27, 58-107, 58-38A, 59-51A, 60-263, 61-259, 62-180  
59-76A, 60-168, 60-36A,  
60-37A, 60-60A, 61-32A, Add-50, METZGER, Albert E.  
Add-51, Add-78, Add-79 62-3, 62-181, 62-284

MATHEWS, Everett R.  
Add-82, Add-85

MATLACK, George M.  
58-38, 58-173, 58-5A, 60-38,  
60-169, 60-170, 62-28, 62-29,  
62-173, 62-178, 62-179

MATTHIAS, Bernd T.  
60-178, 61-98, 62-90

MAUTZ, Charles W.  
57-128, 59-52A

MAXFIELD, James R.  
57-20

MAYER, James W.  
61-33A

MEADOWS, Jesse W. T.  
58-173, 60-169, 60-170, 62-28, 59-36, 59-38, 59-143  
62-179, 62-30A

MEIER, Karl L.  
62-24

MEIXNER, Billy D.  
61-107, 62-76

MELNICK, Mitchell A.  
57-24, 58-22A

MENZEL, Ronald George  
60-37

MERKLE, Theodore C.  
61-40

METROPOLIS, Nicholas Constantine  
57-161, 57-4A, 57-18A, 58-174,  
58-175, 58-176, 59-23

METZ, Charles F.  
57-129, 58-177, 59-214, 60-171,  
60-263, 61-259, 62-180

MEYER, Dean D.  
58-227, 59-141

MEYER-BERKHOUT, Ulrich  
59-142, 59-35A, 59-53A

MIHALCZO, John  
Add-80

MILLER, Daniel Weber  
61-165, 61-34A, 62-182

MILLER, Helen M.  
59-38

MILLER, John Malcolm  
57-4A, 57-18A, 58-174, 58-175

MILLIGAN, Morris F.  
59-36, 59-38, 59-143



MILLS, Carroll B.  
59-9A, 61-166, 61-9A, 62-183,  
62-184, Add-80

MILLS, Robert L.  
57-78, 58-178, 58-226, 59-13,  
59-55, 59-90, 60-245, 61-167,  
61-168, 61-169, 61-225, 62-91,  
62-94, 62-247, 62-248

MINER, William N.  
58-52, 59-179, 61-56, 61-170,  
62-70

MINSHALL, F. Stanley  
57-59, 58-16A, 61-83, 61-171,  
61-7A, 62-39A

MITCHELL, Kenneth B.  
61-172

MITCHELL, Robert N.  
57-82, 57-130, 59-98, 60-116

MITCHELL, Victoria E.  
59-33A, 61-190, 62-207

MIZE, Jack P.  
57-26, 57-8A, 58-53, 60-22A,  
60-38A, Add-28

MJOLSNESS, Raymond C.  
59-25A, 61-173, 61-45A, 62-63,  
62-64, 62-40A

MOHLER, Ronald R.  
60-172, 60-39A, 61-174,  
62-114

MONEY, Richard K.  
61-78

MOORE, Philip F.  
59-144, 61-51

MOORE, Richard H.  
58-39A, 58-40A, 61-44

MOORE, Roger H.  
61-195, 62-185

MORGAN, Arthur N., Jr.  
58-179, 58-34A, 58-51A, 59-130,  
60-197, 62-42A

MORGAN, Maxine  
Add-81

MOROSIN, Bruno  
58-268, 61-138

MOSEN, Arthur W.  
58-275

MOSLEY, John R.  
62-102

MOSS, William D.  
58-86, 59-100, 60-82, 61-175

MOTZ, Henry T.  
59-13A, 59-54A, 59-55A, 60-173,  
60-7A, 60-11A, 60-40A, 61-27A,  
62-186, 62-41A

MULFORD, Robert N. R.  
58-124, 58-180, 58-181, 61-112,  
61-170, 61-176, 61-177, 62-187

MULLER, Doris Clegg  
57-131, 57-30A, 58-41A

MULLER, Ralph H.  
57-132, 57-133, 57-31A, 58-182,  
58-183, 58-184, 58-42A, 58-43A,  
58-44A, 58-45A, 58-46A, 61-178

MULLINS, Lawrence J., Jr.  
58-163, 59-56A, 60-174, 60-175,  
60-41A, 62-42A

MURLEY, Eldon L.  
60-106

MURPHY, Arthur G.  
59-161

MURPHY, Daniel J.  
58-185, 59-145, 61-20, 62-188

MURRAY, Arthur, III  
58-186, 60-188, 62-50

MYGATT, Peter  
57-32A

NADLER, Marion R.  
59-113, 59-146, 59-147, 60-136,  
60-137, 60-176, 61-179

NAGLE, Darragh E.  
59-45, 59-135, 59-148, 59-21A, 60-60,  
59-57A, 60-52, 60-53, 60-60,  
60-177, 60-178, 60-179,  
60-180, 61-55, 61-61, 61-85,  
61-13A, 61-14A, 62-52, 62-53,  
62-85, 62-189, 62-190,  
Add-6, Add-8

NEHER, Leland K.  
59-149

NELSON, Gilbert B.  
58-173, 60-170, 62-105,  
62-191

NELSON, Norton  
60-226

NELSON, Ronald H.  
61-134

NERESON, Norris G.  
61-6, 62-192, 62-193, 62-200

NEUER, John J.  
Add-70

NEUMANN, H. D.  
59-221

NEWELL, John F.  
Add-82, Add-85

NEWTON, Thomas W.  
57-10, 57-134, 58-187, 58-210,  
59-150, 59-151, 60-6, 60-181,  
60-42A, 61-12, 62-194

NICHOLS, Billy D.  
62-1

NICODEMUS, David B.  
57-13A, 57-33A, 58-55

NIELSEN, J. T.  
58-273

NOAKES, John  
58-45

NOBLES, Ralph A.  
57-135, 57-26A, 57-34A, 57-43A,  
58-188, 59-13, 62-195, 62-43A

NORTHROP, John A.  
57-6A, 57-35A, 57-44A, 58-189,  
58-190, 58-191, 58-192, 58-237,  
58-238, 59-152, 61-35A

NUCKOLLS, Donald E.  
59-44, 62-48

O'KEEFFE, Richard L.  
Add-84

O'ROURKE, John A.  
59-209

OGARD, Allen E.  
60-197, 62-196, 62-197

OGLE, William E.  
Add-83, Add-96

OKRENT, David  
59-17A

OLIPHANT, Thomas A.  
60-8, 61-23, 61-180, 62-198

OLSEN, Clayton E.  
59-54, 60-182, 61-181, 61-212,  
61-213, 62-72, 62-190, 62-193,  
62-199, 62-200, 62-286

OLSON, Donald M.  
57-158, 59-86, 62-201

OLSON, William M.  
61-255

ONSTOTT, Edward I.  
58-193, 58-47A, 59-153,  
60-183, 60-43A, 60-44A,  
61-182, 61-183, 61-36A,  
62-202, 62-294

ORNDOFF, John D.  
57-136, 58-276, 60-125, 60-153,  
61-72, 61-23A

ORTH, Carl  
57-24

ORTH, Charles J.  
58-56, 58-48A, 59-58A, 60-184,  
61-51, 61-184, 61-185, Add-70

OSBORN, Lewis C.  
60-271

OSHER, John E.  
58-53, 58-125, 60-21A, 60-25A,  
60-26A, 60-45A, 60-46A,  
61-103, 61-127, 61-37A,  
62-203, 62-44A, Add-28, Add-56

OTT, Donald G.  
57-110, 57-137, 58-194,  
58-245, 58-49A, 59-12, 59-115,  
59-116, 59-154, 60-16, 60-20,  
60-140, 60-185, 61-30, 61-186,  
62-110

OVERTON, William C., Jr.  
62-204

PARKER, Frederick Rollins  
57-196, 58-279, 58-280

PASTA, John R.  
59-155

PAXTON, Hugh C.  
57-77, 57-138, 58-45, 58-195,  
58-196, 59-123, 59-156, 60-74,  
60-101, 60-125, 60-153, 61-267,  
62-45A

PEARSON, Albert M.  
61-134

PEEK, Harry Milton  
57-139

PENNEMAN, Robert A.  
57-7, 57-32, 58-197, 58-198,  
58-199, 59-59A, 60-47, 60-160,  
60-186, 61-7, 61-187, 61-188,  
62-5, 62-205, 62-46A

PERKINS, Betty L.  
58-106

PERKINS, Harolyn King  
60-35A

PERKINS, Roger B.  
61-79, 61-189, 61-234, 61-38A

PERRY, Joseph E., Jr.  
57-11, 57-13, 57-3A, 57-22A,  
58-17, 59-13, 59-55, 60-14,  
60-187, 61-174

PETERSEN, Donald F.  
57-140, 58-50A, 60-188, 61-190,  
61-216, 61-230, 62-206, 62-207,  
62-252

PETERSON, Peter J.  
58-200, 60-47A

PETERSON, Robert W.  
61-19A

PETERSON, Rolf E.  
58-24, 58-201, 59-38A  
62-208

PETTY, Roy L.  
61-193, 62-214

PHELPS, Charles G.  
61-191

PHELPS, Robert T.  
60-25

PHILLIPS, Donald Davis  
59-13

PHILLIPS, James A.  
57-27, 58-39, 58-53, 58-75,  
58-125, 58-202, 61-28A,  
62-62, Add-2, Add-18, Add-23,  
Add-28, Add-37, Add-56

PIDD, Robert W.  
58-105, 59-157, 59-158

PIMBLEY, George H., Jr.  
59-159, 62-209, 62-210

PINSON, Ernest A.  
57-141

PIROUE, Pierre Adrien  
61-79

PITTS, Jerry J.  
62-211

PLASSMANN, Eugene A.  
60-189

POPJAK, George  
57-20A, 58-203, 58-26A

PORTER, Charles Edwin  
58-28, 58-204, 58-205, 58-206,  
59-9

POST, James  
57-65

POTTER, Robert M.  
60-26, 62-232

POVELITES, John G.  
58-207

PRESSMAN, Maurice  
61-39A

PRESTWOOD, Rene J.  
57-1, 59-14, 61-51, 61-192,  
62-11

PRETZEL, Frank E.  
57-36A, 60-190, 61-150, 61-193,  
61-194, 61-40A, 62-212, 62-213,  
62-214

PRINCE, Margaret Y.  
62-99

PRITCHARD, William C.  
62-196, 62-197

PUTNAM, Thomas M.  
57-23, 57-37A, 60-29, 62-215,  
62-47A, 62-50A

QUINN, Warren E.  
58-82, 59-26, 59-148, 59-8A,  
59-57A, 59-60A, 60-24, 60-121,  
60-180, 60-31A, 60-48A, 61-152,  
61-153, 61-41A, 61-50A, 62-158,  
62-47A, 62-50A, Add-7, Add-39,  
Add-40

RABIDEAU, Sherman W.  
57-80, 57-142, 57-143, 58-208,  
58-209, 58-210, 59-151,  
59-160, 59-61A, 60-191,  
60-192, 60-193, 60-194,  
61-195, 61-196

RADCLIFFE, Jack C.  
60-226

RAGAN, George L.  
62-12A, 62-48A

RAMSAY, John Barada  
60-25, 61-42, 62-276

RANCK, Ralph O.  
58-93

RANKEN, William A.  
60-76, 60-195, 60-196, 61-42A

RAO, K. Narahari  
61-197

RAVENHALL, D. Geoffrey  
57-23A, 58-130

READING, Leo M.  
Add-85

REAVIS, James G.  
58-163, 58-51A, 59-21,  
60-197

REDMAN, Helen F.  
62-216, 62-217

REDMAN, William C.  
58-45

REGAS, Stelios  
59-161

REICHEL, Walter H.  
61-43A, 62-218

REIDER, Roy  
59-156

REINES, Frederick  
57-34, 57-35, 57-36, 57-144,  
58-211, 58-212, 58-216, 58-63A,  
59-40, 59-162, 60-198

REISFELD, Martin J.  
60-162, 61-30A

REISWIG, Robert D.  
59-45, 60-52, 60-177, 61-198

REITEMEIER, Robert Francis  
60-37

REITHEL, Robert J.  
60-199, 62-219, Add-86

REITZ, John Richard  
59-132, 59-133, 59-46A, 60-152,  
62-49A

REX, Elgin H.  
58-50, 58-22A, Add-26

REYNOLDS, Clayton E.  
61-199, 62-220

RIBE, Fred L.  
57-145, 59-135, 59-4A, 60-180,  
60-200, 60-201, 60-48A, 60-49A,  
61-11, 61-21, 61-152, 61-173,  
61-44A, 61-46A, 62-122, 62-158,  
62-246, 62-47A, 62-50A, Add-6,  
Add-8

RICE, Melvin H.  
57-146, 57-187, 57-188, 58-213,  
61-200

RICH, Marvin T.  
59-89, 59-36A, 60-95

RICHARDSON, Lee S.  
59-56, 59-57

RICHMOND, Chester R.  
 57-147, 58-52A, 59-154,  
 59-62A, 60-158, 60-202,  
 61-201, 61-202, 62-88, 62-89,  
 62-221, 62-222, 62-223,  
 62-224, 62-225

RICHMYER, Robert D.  
 60-50A, 60-55A, 61-156

RIESE, Gretchen  
 58-168

RIESENFELD, Werner B.  
 59-148, 59-57A, 60-180,  
 61-173, 61-45A, Add-6

RINK, John P.  
 58-73, 58-151, 59-43A,  
 61-137, 61-203, 62-226,  
 62-227, 62-228

ROACH, William H.  
 60-203

ROBERTS, Edwin M.  
 62-229

ROBERTS, Jack E.  
 59-1

ROBERTS, Mary B.  
 61-80, 62-79

ROBERTS, Robert N.  
 58-214

ROBERTS, Thomas R.  
 57-171, 57-172, 57-173,  
 58-161, 58-215, 58-58A,  
 59-13, 59-129, 60-204, 60-205,  
 60-244, 60-246, 62-230,  
 62-231, 62-253, 62-51A

ROBINSON, Eugene S.  
 60-26, 62-232

RODBERG, Leonard S.  
 60-206, 60-207, 60-208,  
 60-209

ROEHLING, Duane J.  
 58-105, 59-157, 59-158

ROGERS, Betty S.  
 see - JACKSON, Betty S.

ROGERS, John D.  
 59-94, 61-204, 62-233

ROGERS, Raymond N.  
 59-164, 59-165, 60-210, 60-211,  
 60-274, 60-275, 61-205, 62-234,  
 Add-130

ROHWER, Robert K.  
 61-29

ROM, Frank  
 61-40

RONZIO, Anthony R.  
 57-148, 58-216, 59-166

ROOF, Raymond B., Jr.  
 58-1A, 59-53, 59-167, 59-168,  
 59-169, 60-58, 60-212, 60-213,  
 61-206, 61-207, 61-255, 62-235,  
 62-236, 62-237

ROSE, Jesse  
 60-157

ROSEN, Louis  
 57-23, 57-149, 57-168, 57-7A,  
 57-37A, 57-38A, 58-34, 58-217,  
 59-170, 59-2A, 59-3A, 59-72A,  
 60-3, 60-15, 60-29, 60-31, 60-56,  
 60-57, 60-88, 60-214, 60-215,  
 60-216, 60-217, 60-218, 60-236,  
 61-5, 61-37, 61-208, 61-209,  
 62-238, 62-239, 62-240, 62-260,  
 62-52A, 62-55A, 62-56A

ROSENBLUTH, Marshall N.  
57-150, Add-87, Add-88,  
Add-89, Add-90, Add-91

ROSENTHAL, Jerome J.  
58-218

ROSENTHAL, Stanley L.  
59-171, 59-172, 60-219

ROSENZWEIG, Abraham  
59-173

ROTENBERG, Aubrey  
60-50A, 60-55A, 61-156

ROTENBERG, Manuel  
57-39A, 58-219, 59-47A, 60-36,  
Add-13, Add-15

ROWE, Marvin W.  
61-210

RUDNICK, Paul  
58-96

RUPERT, George  
60-190

RUSHING, Charles Carey  
60-190, 61-194, 61-40A,  
62-212

RUSSELL, John H.  
60-220

SABINE, Jean C.  
59-174

SALMI, Ernest W.  
58-105, 59-157, 59-158,  
60-195, 60-221, 61-43A

SALSBURG, Zevi W.  
57-63, 57-194, 59-175,  
60-272, 62-241, 62-242

SAMPSON, Douglas H.  
59-176, 61-211, 62-243

SANDENAW, Thomas A.  
58-220, 60-222, 61-212, 61-213,  
61-214, 61-215, 62-244, 62-245

SANDERS, Phyllis C.  
58-239, 61-216, 62-251

SANMANN, Everett E.  
62-150

SARTORI, Leo  
59-63A

SATKUS, D.  
59-17A

SATTIZAHN, James E.  
57-40A, 58-4A, 59-32, 60-37,  
60-223

SAVAGE, Albert W., Jr.  
59-117, 59-64A, 60-224

SAWYER, George A.  
57-27, 58-41, 58-85, 59-26,  
59-177, 59-60A, 60-121, 60-24A,  
60-53A, 61-21, 61-44A, 61-46A,  
62-122, 62-158, 62-246, Add-4,  
Add-16, Add-20, Add-24, Add-41,  
Add-76, Add-92

SAYEG, Joseph A.  
58-221, 58-232, 59-188,  
60-51A, 61-186, Add-70

SCHAFER, William Day  
59-32A, 60-84, 61-43A

SCHARDT, Alois W.  
57-151, 59-44A, 59-65A, 60-68,  
61-217, 61-218

SCHARFF-GOLDHABER, Gertrude  
59-178

SCHERB, Frank  
59-55

SCHILLING, Fred P.  
61-47A

SCHLESINGER, Stewart  
57-152

SCHMITT, Harold W.  
57-119

SCHOFIELD, Aldred E.  
Add-93, Add-100

SCHONFELD, Fred W.  
58-52, 58-60, 58-222, 59-179,  
59-196, 60-46, 61-56, 61-170,  
61-219, 61-220, 61-221

SCHOTT, Garry L.  
58-18, 58-223, 59-66A, 60-225,  
61-48A, 62-130

SCHREIBER, Raemer E.  
58-32, 58-224, 58-53A,  
59-180, 61-222, 61-223,  
62-53A, Add-11, Add-94,  
Add-95, Add-96, Add-97

SCHUCH, Adam F.  
58-109, 58-225, 58-226, 61-168,  
61-224, 61-225, 62-24, 62-247,  
62-248

SCHUCH, Robert L.  
57-6, 57-153, 57-154, 58-5,  
59-181, 61-3, 61-134, Add-1

SCHULTE, Harry F.  
58-227, 59-98, 59-100,  
59-182, 60-116, 60-226,  
61-175, 61-226, 62-249, Add-98

SCHULTE, John W.  
57-155, 60-20A

SCHWARTZ, Larry Lee  
60-35A, 61-164

SCHWARTZ, Mortimer  
57-111, 58-149, 61-135

SCHWEITZER, William H.  
57-159, 57-160, 61-186

SCOTT, Franklin Robert  
58-25, Add-99, Add-100, Add-101

SCOTT, Peter Leslie  
59-177

SEAGRAVE, John D.  
57-156, 58-10A, 58-54A, 58-55A,  
59-183, 60-227, 60-228

SEAY, Glenn E.  
57-41A, 61-199, 61-227, 61-228,  
62-220, Add-86

SEEGER, Philip A.  
59-67A, 61-229

SEEGMILLER, Robert  
60-229, 62-250

SEELY, Leslie B., Jr.  
57-41A, 61-227, 61-228, 62-16

SELLERS, M. C.  
58-273

SHAFFER, David S.  
60-20A

SHAFROTH, Stephen M.  
60-15

SHARRAH, J. F.  
60-226

SHEINBERG, Haskell  
60-41



SHEPHERD, George R.  
62-251, 62-252

SHERMAN, Robert H.  
58-78, 58-108, 59-68A, 60-69,  
60-230, 60-244, 62-230,  
62-231, 62-253, 62-51A

SHIPMAN, Thomas L.  
58-228, 59-184, 60-231,  
61-230, 61-231

SHLAER, William Joseph  
62-63A

SHRADER, Erwin S.  
61-58

SHULL, Theodore T.  
60-68

SHUNK, Edward R.  
62-54A

SIGLER, Paul B.  
57-157

SILBERT, Myron G.  
59-103, 59-178, 60-122,  
60-123, 60-124, 60-52A,  
61-119, 61-120, 61-232,  
61-233, 61-24A, 62-254

SILVERTHORN, Merlin E.  
61-8

SIMMONS, J. T.  
62-157

SIMMONS, James E.  
57-42A, 58-10A, 58-54A,  
58-55A, 59-16A, 59-40A,  
59-69A, 60-227, 60-232,  
61-189, 61-234, 61-38A

SINGER, Joseph  
59-185

SINGER, Sidney  
62-113

SKOLNICK, Saul  
Add-86

SKUMANICH, Andrew  
60-268

SLAGER, Ursula T.  
58-169

SMILEY, William G.  
58-229

SMITH, Cyril Stanley  
61-235

SMITH, Darryl B.  
61-120, 61-233, 61-24A

SMITH, Helen Louise  
57-48A, 61-236, 62-255

SMITH, Louis C.  
61-251, 62-282

SMITH, Maynard E.  
58-230

SMITH, Morton C.  
57-158, 59-86, 62-201

SMITH, Ralph G.  
60-226

SMITH, Ronald K.  
57-1, 57-11, 57-3A, 57-22A,  
57-26A, 57-43A, 58-17, 58-153,  
59-46, 59-58A, 59-70A, 60-14,  
60-184, 61-19A, 62-255, Add-70

SMOLUCHOWSKI, Roman  
62-256, 62-21A

SODDY, Theodore  
57-71

SOMMERS, Henry S., Jr.  
58-143

SOOD, P. C.  
58-104

SOPER, William G.  
59-186

SPALDING, John F.  
57-126, 57-159, 57-160,  
58-231, 58-232, 58-233,  
58-234, 58-56A, 59-187,  
59-188, 60-233, 61-237,  
61-238, 61-239, 61-240,  
61-53A, 62-257, 62-258,  
62-278

SPRINGER, Thomas E.  
62-65, 62-134

STAMBAUGH, Claude K.  
57-118

STAMPFER, Joseph F.  
60-234

STAPP, Henry P.  
57-161

STARITZKY, Eugene  
57-41, 57-52, 57-53, 57-54,  
57-56, 57-96, 57-162,  
57-163, 57-164, 57-165,  
57-180, 58-198, 58-199

STARNER, John W.  
57-26, 57-8A, 58-62, 59-34,  
59-10A, 59-23A, 59-71A,  
60-9A, 60-15A, 61-10A, 62-32,  
62-8A

STEARNS, James G.  
58-241

STEIN, Patricia C.  
62-259

STEIN, Paul R.  
57-112, 57-166, 60-63A, 61-268,  
61-270

STEIN, William E.  
57-167, 57-48A, 58-235, 61-55A,  
Add-70

STEINHAUS, David W.  
59-189, 60-235

STERN, Arthur C.  
60-226

STEWART, Donald C.  
58-46

STEWART, John N.  
62-49

STEWART, Leona  
57-168, 58-34, 58-2A, 59-72A,  
60-29, 60-31, 60-88, 60-217,  
60-236, 60-237, 61-208, 61-209,  
61-21A, 62-240, 62-260, 62-52A,  
62-55A, 62-56A

STEYERT, William A., Jr.  
62-51, 62-53, 62-261

STODDARD, Stephen D.  
57-169, 58-218, 58-236, 59-44,  
62-48

STOKES, James L.  
62-71

STOKES, Richard H.  
57-6A, 57-35A, 57-44A, 58-189,  
58-237, 58-238, 59-152, 60-238,  
61-241

STONE, Philip M.  
62-262, 62-263, 62-1A, 62-49A

STOOKSBERRY, Robert W.  
61-49A

STORER, John B.  
57-20, 57-170, 57-29A,  
58-239, 58-240, 59-190

STORM, Ellery  
62-264

STORM, Martin L.  
57-4A, 57-18A, 58-174, 58-175

STORMS, Edmund K.  
59-191, 60-135, 60-190,  
60-239, 60-240, 61-113, 62-90,  
62-265

STOUT, Ellis L.  
58-241, 61-242

STOVALL, Emory J., Jr.  
57-27, 58-53, 58-57A, 60-26A,  
61-28A, 61-45A, 62-62, 62-57A,  
Add-28, Add-103

STRANG, Verda G.  
57-19, 57-5A, 58-29, 58-231,  
58-234, 59-187, 59-188  
60-233, 61-238, 61-239,  
62-258

STRATTON, Thomas F.  
57-27, 58-41, 58-85, 59-26,  
59-177, 59-60A, 60-121,  
60-24A, 60-53A, 61-21, 61-153,  
61-41A, 61-44A, 61-46A,  
61-50A, 62-122, 62-175, 62-246,  
62-266, 62-58A, Add-4, Add-12,  
Add-20, Add-24, Add-41,  
Add-76, Add-92, Add-104

STRATTON, William R.  
58-242, 60-241, 60-269,  
60-54A, 61-51A, Add-105

STREETMAN, J. Robert  
61-20A, 61-52A

STRICKLER, T. D.  
58-243

STRUEBING, Vernon O.  
58-52, 61-100

STURGEON, George  
62-205

SULLIVAN, John H.  
59-192, 59-193, 61-243, 62-267

SUTTLE, John F.  
60-234

SUTTON, Jerry  
60-158

SUYDAM, Bergen R.  
60-50A, 60-55A, 61-156, 62-164,  
Add-106, Add-107

SWAMY, N. V. V. J.  
58-244

SWANK, Robert K.  
58-245

SWARTZ, Blair K.  
60-14, 60-242

SWICKARD, Earl O.  
59-73A

SWIHART, Thomas L.  
59-194, 60-243, 61-244

SWINEHART, Donald F.  
57-10A

SYDORIAK, Stephen G.  
 57-171, 57-172, 57-173, 58-161, 61-42A  
 58-215, 58-58A, 59-13, 59-129,  
 60-204, 60-205, 60-244, 60-245, 60-246, 61-167, 61-169,  
 62-230, 62-231, 62-253, 62-51A

SYVERUD, Alan N.  
 58-47A

SZKLARZ, Eugene G.  
 62-90, 62-213, 62-59A

TANGMAN, Edward Peter  
 59-98

TASCHEK, Richard F.  
 58-246, 62-268, Add-108,  
 Add-109

TATE, Raymond E.  
 58-222, 58-247, 59-195,  
 59-196, 60-247, 61-170,  
 61-245

TAUB, Abraham H.  
 59-23

TAUB, James M.  
 58-111, 59-30, 59-31, 60-133,  
 61-20, 61-148, 62-109,  
 62-188, 62-25A

TAUBE, Henry  
 60-120, 62-156

TAYLOR, Grover M.  
 58-248, 60-248

TAYLOR, Raymond Dean  
 57-45, 57-46, 57-174, 57-45A,  
 57-46A, 58-64, 58-65, 58-249,  
 58-59A, 60-60, 60-61, 60-178,  
 61-55, 61-61, 61-85, 61-132,  
 61-13A, 61-14A, 62-51, 62-52,  
 62-53, 62-85, 62-189, 62-190,  
 62-269, 62-270, 62-60A, Add-65

TEATUM, Eugene T.  
 61-42A

TENNEY, Gerold H.  
 57-175, 58-80, 58-250, 58-251,  
 58-252, 58-253, 59-197, 59-198,  
 61-74, 61-246, 62-71, 62-271,  
 62-272

TERRELL, James Nelson  
 57-176, 58-68, 58-254, 58-255,  
 58-256, 59-199, 59-200, 59-24A,  
 59-74A, 60-64, 60-249, 61-247,  
 62-273, Add-70, Add-110, Add-111

THALER, Raphael Morton  
 see - THALER, Roy M.

THALER, Roy M.  
 57-67, 57-68, 57-69, 57-70,  
 57-95, 57-177, 57-23A,  
 58-91, 58-100, 58-130, 58-24A,  
 59-114, 59-201, 60-89, 60-90,  
 60-150, 60-206, 61-86, 61-87

THAMER, Burton J.  
 57-179, 57-180, 58-257, 60-250,  
 62-274, 62-10A

THOMAS, Richard G.  
 58-22A

THOMAS, Richard L.  
 58-179, 58-200

THOMAS, Robert G.  
 58-156, 62-40

THOMSON, David B.  
 58-60A, 62-84, 62-275

THORN, Linas  
 62-65A

THORPE, Munson M.  
 58-281

THRAP, Robert G.  
 57-139

TIEMANN, Jerome J.  
 57-23A, 58-130

TINKLE, Marvin C.  
 60-56A

TIPTON, Clyde R., Jr.  
 60-46

TOD, David B.  
 57-82

TRAFTON, Glessie A.  
 62-221, 62-223

TRAVIS, Billy D.  
 60-56A

TRAVIS, James Roland  
 61-41, 61-42, 62-276

TREIMAN, Leonard H.  
 62-277

TRIGGER, Kenneth R.  
 Add-112

TRUE, William W.  
 58-258

TRUJILLO, Theodore T.  
 59-1, 59-154, 60-202, 61-237,  
 61-240, 61-53A, 62-222,  
 62-257, 62-278

TSANG, Wing  
 61-5A

TSINGOU, Mary  
 59-23

TUCK, James Leslie  
 57-27, 58-125, 58-154, 58-202,  
 59-65, 59-202, 60-24, 60-251,  
 60-252, 61-248, 61-28A, 62-62,  
 62-279, Add-56, Add-113,  
 Add-114, Add-115, Add-116,  
 Add-117, Add-118, Add-119,  
 Add-120

TURK, Amos  
 60-226

TURKEVICH, Anthony  
 57-4A, 57-18A, 58-174, 58-175,  
 59-19A, 61-51

ULAM, Stanislaw M.  
 57-112, 57-166, 57-181, 57-182,  
 58-32, 58-259, 58-61A, 59-155,  
 60-253, 61-249, 61-250, 62-280,  
 62-281, 62-61A, Add-121

UNGNADE, Herbert E.  
 57-183, 57-184, 58-146, 58-147,  
 58-148, 58-260, 58-261, 58-62A,  
 59-119, 59-203, 59-204, 59-205,  
 59-206, 60-142, 60-254, Add-122

URIZAR, Manuel J.  
 61-251, 62-282

USNER, Arthur  
 60-96

VALENTA, Milton W.  
 61-26A, 62-30A

VAN DILLA, Marvin A.  
 58-5, 58-8, 59-207, 60-255,  
 60-256, 60-257, 60-258, 61-3,  
 61-210, 61-252, 61-253, 62-3,  
 62-181, 62-283, 62-284

VAN DUREN, Allan  
 Add-3, Add-123

VAN KOOTEN, Edward H.  
58-268

VARGA, Richard S.  
58-121

VENABLE, Douglas  
58-16, 58-150, 62-285

VIER, Dwayne T.  
60-270, 62-213

VIGIL, Felix A.  
58-50, 58-22A, Add-26

VINEYARD, George H.  
62-100

VISSCHER, William M.  
59-208, 59-77A, 60-259,  
60-276, 61-61, 61-14A, 62-26,  
62-85

VOGEL, Richard E.  
61-254

VON NEUMANN, John  
59-23

VOORHEES, Edward A.  
58-262, 60-260

WABER, James T.  
57-185, 58-263, 58-264,  
58-265, 59-209, 60-46, 60-261,  
61-101, 61-170, 61-255, 61-256,  
61-257, 62-286, 62-288

WACKERLE, Jerry  
60-57A, 62-287, 62-36A,  
62-62A

WAGEMAN, William E.  
60-262

WAGNER, John J.  
58-8A, 58-63A, 59-40, Add-70,  
Add-124

WAGNER, Paul  
58-69, 58-266, 59-210, 59-211,  
59-212

WAGNER, Robert T.  
62-54A

WAHL, Arthur C.  
58-267

WAKANO, Masami  
59-72

WALDEN, William  
57-112, 57-186

WALDSTEIN, Peter  
61-40A, 62-212

WALKER, Donald I.  
57-163

WALLACE, Terry C.  
62-102

WALLIS, Malcomb  
61-49A

WALSH, John M.  
57-146, 57-187, 57-188, 58-213

WALSH, Kenneth A.  
58-51A, 59-21, 60-197

WALT, Martin  
60-63

WANTA, R. C.  
60-226

WARD, Gerald M.  
61-258

WARD, John W.  
62-288, 62-289

WARREN, Buddy J.  
57-26A, 58-153, 58-4A, 59-32,  
59-34, 60-37

WARREN, John L.  
59-92, 62-66A

WATERBURY, Glenn R.  
57-21, 57-22, 57-189, 57-190,  
58-268, 58-269, 59-213,  
59-214, 60-97, 60-98, 60-171,  
60-263, 61-259, 62-105,  
62-106, 62-140, 62-180,  
62-191

WATSON, Kenneth M.  
57-29, 57-191, 58-48, 59-65,  
61-123, Add-14, Add-125,  
Add-129

WATTERS, James I.  
57-47A

WATTS, Richard John  
60-264

WEBSTER, Walter M.  
59-28A

WEGNER, Harvey E.  
58-270, 58-64A, 59-75A,  
60-265, 60-58A, 61-165,  
61-260, 61-261, 61-33A,  
61-34A, 61-54A, 62-17, 62-18,  
62-23, 62-172, 62-182,  
62-290, 62-291, 62-4A, 62-63A

WEIPERT, Eugene A.  
57-71, 58-92, 58-93, 58-94,  
58-95

WEITZNER, Harold  
58-37

WELCH, Billy E.  
59-1

WELLNITZ, Juliamarie  
see - LANGHAM, Juliamarie

WELLS, Mark B.  
57-112, 59-17A, 61-34, 61-262,  
61-263

WELTY, Carl G.  
59-109

WENDROFF, Burton  
60-242, 60-266, 60-267, 61-264,  
61-265

WERBIN, Harold  
57-76, 57-122

WERBROUCK, Albert Eugene  
59-63A

WESTERVELT, Donald R.  
60-268

WHEATLEY, Eugene A., Jr.  
60-39A

WHEELER, John A.  
59-70, 59-72, 59-73

WHERRITT, Charles R.  
62-292, 62-64A

WHETSTONE, Stanley L., Jr.  
57-48A, 58-235, 58-65A, 59-215,  
60-59A, 61-55A, 61-56A, Add-70

WHITE, D. C.  
58-31

WHITE, Frederick A.  
60-12

WHITE, Ralph W.  
58-42A, 58-44A

WHITE, Roger H.  
 60-269

WILSON, Dean  
 60-157

WHITMER, Romaine F.  
 Add-126, Add-127

WILSON, Mahlon  
 62-65A

WHYTE, Dawn D.  
 62-286

WIMETT, Thomas F.  
 57-104, 58-142, 58-276, 60-269

WIENEKE, John R.  
 Add-128

WINCHESTER, Robert S.  
 58-277

WILETS, Lawrence  
 57-9A, 57-39A, 58-49, 58-219,  
 58-271, 58-272, Add-25

WING, G. Milton  
 57-14, 58-19, 58-20, 58-21,  
 59-16, 59-17

WILEY, Richard H.  
 57-192, 57-193, 58-273,  
 58-274

WISSLER, Robert W.  
 59-34A

WILLARD, Hobart H.  
 58-275

WITT, Jerry Robert  
 62-294

WILLIAMS, Arthur H.  
 59-93, 59-76A, 60-168, 60-36A,  
 60-37A, 60-60A, Add-24, Add-50

WITTEMAN, Willard G.  
 59-158, 60-143, 60-270, 62-151

WILLIAMS, D. Lloyd  
 58-186, 59-181, 60-110, 62-21,  
 62-139, 62-293

WOJCIOWICZ, Peter J.  
 57-194

WILLIAMS, David V.  
 58-45

WOLFSBERG, Kurt  
 62-295

WILLIAMS, Dudley  
 61-204

WOOD, David P.  
 60-100, 60-101, 60-189, 60-269,  
 60-271

WILLIAMSON, Ralph E.  
 60-103

WOOD, William Wayne  
 57-63, 57-195, 57-196, 57-197,  
 57-49A, 58-84, 58-278, 58-279,  
 58-280, 59-175, 59-216,  
 60-78, 60-272, 61-266, 62-241

WILLIS, Walter L.  
 62-24

WOODCOCK, Edward R.  
 61-267

WILLS, John G.  
 60-9, 60-273, 60-61A, 61-14,  
 61-18A, 62-7

WOODWARD, Kent T.  
 57-147



WOOTEN, John K.  
 59-63A

WORMAN, Frederick C. V.  
 60-233

WRIGHT, Edward S.  
 61-256

WYATT, Philip J.  
 60-273, 60-61A

WYKOFF, Walter R.  
 59-94, 59-38A, 62-14, 62-296,  
 62-3A

WYLD, Henry W., Jr.  
 Add-129

WYMAN, Marvin Eugene  
 58-281, 58-8A, 58-63A,  
 58-66A, 59-40, Add-70

YARGER, Frederick L.  
 57-188

YARNELL, John L.  
 58-282, 58-67A, 59-18, 59-217,  
 60-27A, 62-66A

YASUDA, Stanley K.  
 59-164, 60-210, 60-274,  
 60-275

YENNIE, Donald R.  
 59-69

YOUNG, James E.  
 57-50A, 58-283, 58-68A,  
 59-218, 59-77A, 60-276,  
 60-62A, 60-63A, 61-268,  
 61-269, 61-270

YOUNG, James L., III  
 61-71

YPSILANTIS, Tom J.  
 57-161

ZACHARIASEN, William H.  
 57-9, 57-198, 59-219, 61-271

ZEIGLER, Royal Keith  
 57-104, 58-40A, 62-178, 62-233

ZELTMANN, Alfred H.  
 58-88, 59-220

ZERWEKH, Charles, Jr.  
 Add-84

ZIMMERMAN, Roy  
 58-45

ZINN, John  
 60-210, 60-277, 62-297, Add-130

ZOBRISKY, Steve E.  
 59-221

ZUKAS, Eugene G.  
 59-222, 60-278, 61-83, 61-272,  
 61-273, Add-131

## NUMERICAL INDEX

LADC numbers are ordinarily assigned to papers when the material is first received by Group D-6 for release for presentation or publication. The LADC numbers given below are roughly chronological and are divided by year of release. The listing of a paper in a year subsequent to its publication or its listing with letters inserted between the LADC prefix and the serial number indicates that the paper was originally handled outside the usual system.

<u>1953</u>		<u>1954</u> (Cont'd.)	
LADC-1412	61-126	LADC-1721	57-128
LADC-1412b	60-129	LADC-1801	59-55
LADC-1449	Add-85	LADC-1827	57-146
LADC-1452	58-57		
LADC-1495	57-87		<u>1955</u>
LADC-1532	60-13	LADC-1874	57-75
LADC-1553	57-13A	LADC-1937	57-74
LADC-1560	57-49	LADC-1960	59-51
		LADC-1979	58-164
		LADC-2017	57-181
	<u>1954</u>	LADC-2027	57-122
LADC-1596	57-26	LADC-2055	61-73
LADC-1617	58-255	LADC-2092	57-50
LADC-1708	57-48	LADC-2111	57-119
LADC-1714	59-209	LADC-2121	60-30
LADC-1718	57-139		

	<u>1955</u> (Cont 'd.)		<u>1956</u> (Cont 'd.)
LADC-2122	57-145	LADC-2372	57-7
LADC-2151	57-159	LADC-2372b	57-32
LADC-2171	57-46	LADC-2376	57-155
LADC-2188	58-4	LADC-2379	57-110
LADC-2207	57-72	LADC-2393	58-118
LADC-2236	57-38	LADC-2395	61-130
LADC-2270	57-185	LADC-2407	57-186
LADC-2274	58-88	LADC-2412	57-170
LADC-2282	57-160	LADC-2416	57-136
LADC-2289	57-16	LADC-2418	57-57
LADC-2294b	57-103	LADC-2443	57-147
LADC-2295	57-151	LADC-2449	57-172
LADC-2296	57-13	LADC-2456	57-109
		LADC-2457	57-175
	<u>1956</u>	LADC-2462	58-42
LADC-2316	58-126	LADC-2474	57-64
LADC-2326	57-169	LADC-2483	57-10
LADC-2328	57-114	LADC-2491	57-15
LADC-2334	57-179	LADC-2498	60-147
LADC-2337	58-183	LADC-2500	59-45A
LADC-2340	57-83	LADC-2502	57-106
LADC-2356	57-114	LADC-2508	58-79
LADC-2368	57-187	LADC-2509	57-16A 58-76

	<u>1956</u> (Cont 'd.)		<u>1956</u> (Cont 'd.)
LADC-2511	58-248	LADC-2556	57-67
LADC-2521	57-76	LADC-2558	57-22
LADC-2523	57-51	LADC-2559	57-189
LADC-2524	57-52	LADC-2560	57-15A
LADC-2524b	57-163	LADC-2564	57-21
LADC-2528	57-77	LADC-2565	57-126
LADC-2529	57-141	LADC-2566	59-174
LADC-2531	57-180	LADC-2567	57-90
LADC-2532	57-56	LADC-2575	57-190
LADC-2533	57-88	LADC-2577	57-112
LADC-2537a	57-133	LADC-2580	57-40
LADC-2537b	57-131	LADC-2581	57-66
LADC-2537c	58-184	LADC-2582	58-122
LADC-2539	57-96	LADC-2583	58-120
LADC-2540	57-73	LADC-2584	57-94
LADC-2543	57-44	LADC-2586	60-153
LADC-2544	58-29	LADC-2592	57-177
LADC-2546	57-118	LADC-2593	57-79
LADC-2549	57-60 57-17A	LADC-2595	58-62
LADC-2552	60-278	LADC-2599	57-61
LADC-2553	57-3	LADC-2600	57-174
LADC-2554	58-182	LADC-2602	57-102
		LADC-2603	57-191

	<u>1956</u> (Cont 'd.)		<u>1956</u> (Cont 'd.)
LADC-2604	57-192	LADC-2642	57-9A 58-49 Add-25
LADC-2606	57-195		
LADC-2607	57-95	LADC-2643	57-46A
LADC-2610	57-193	LADC-2644	57-25A 59-120
LADC-2612	57-39		
LADC-2613	57-4	LADC-2646	57-14A
LADC-2614	57-27	LADC-2648	57-4A 58-174
LADC-2615	57-78	LADC-2649	58-185
LADC-2616	57-91	LADC-2650	57-43
LADC-2618	58-275	LADC-2654	57-34A 58-188
LADC-2619	58-138		
LADC-2620	57-130	LADC-2655	57-134
LADC-2621	59-100	LADC-2656a	59-63
LADC-2623	57-120	LADC-2656b	59-179
LADC-2624	57-171	LADC-2657	57-80
LADC-2629	57-89	LADC-2658	57-18A 58-175
LADC-2630	57-85	LADC-2659	57-166
LADC-2631	57-168	LADC-2660	57-143
LADC-2634	57-86	LADC-2662	57-156
LADC-2635	57-23 57-37A	LADC-2663	57-158
LADC-2639	57-194	LADC-2664	57-29A
LADC-2641	57-21A	LADC-2665	57-111
		LADC-2668	57-81

<u>1956</u> (Cont'd.)		<u>1957</u> (Cont'd.)	
LADC-2969	58-135	LADC-2703	57-9
LADC-2672	57-173	LADC-2713	57-45A
LADC-2673	57-8	LADC-2714	57-65
LADC-2674	57-12	LADC-2722	57-153 57-154
LADC-2676	58-222	LADC-2723	57-45
LADC-2677	57-47	LADC-2724	59-145
LADC-2678	57-5A	LADC-2727	57-82
LADC-2679	57-42	LADC-2728	58-236
LADC-2680	57-142	LADC-2729	58-2
LADC-2681	57-30	LADC-2731	58-128
LADC-2683	57-8A	LADC-2732	58-229
LADC-2684	57-188	LADC-2748	57-6 Add-1
	<u>1957</u>	LADC-2749	58-139
LADC-2687	57-41A	LADC-2750	57-40A 60-223
LADC-2691	57-140	LADC-2752	57-37
LADC-2692	57-18	LADC-2761	57-7A
LADC-2697	57-25	LADC-2763	57-38A
LADC-2698	57-150	LADC-2767	57-33A 58-55
LADC-2699	57-124	LADC-2768	57-26A 58-153
LADC-2700	57-11A	LADC-2770	57-84
LADC-2701	59-33		
LADC-2702	58-265		

	<u>1957</u> (Cont 'd.)		<u>1957</u> (Cont 'd.)
LADC-2771	57-6A	LADC-2813	58-145
LADC-2772	57-35A	LADC-2815	58-68
LADC-2773	57-44A	LADC-2816	58-47
LADC-2774	57-27A	LADC-2819	57-34
LADC-2777	57-39A 58-219	LADC-2820	57-132
LADC-2778	57-183	LADC-2821	57-127
LADC-2779	57-115	LADC-2822	57-12A 58-54
LADC-2780	57-31	LADC-2823	57-137
LADC-2782	57-162 57-165	LADC-2826	58-269
LADC-2783	57-24	LADC-2829	57-28
LADC-2784	58-262	LADC-2833	58-19
LADC-2788	57-2	LADC-2834	58-253
LADC-2790	57-93	LADC-2835	58-140
LADC-2797	58-198	LADC-2837	57-184
LADC-2800	57-101	LADC-2838	57-157
LADC-2801	57-36	LADC-2839	57-19
LADC-2803	57-70	LADC-2844	58-127
LADC-2806	57-113	LADC-2846	58-85
LADC-2807	58-233	LADC-2847	57-99
LADC-2808	57-49A	LADC-2848	58-61
LADC-2809	59-182	LADC-2849	57-144
LADC-2812	58-213	LADC-2850	57-135

	<u>1957</u> (Cont'd.)		<u>1957</u> (Cont'd.)
LADC-2851	57-196	LADC-2882	58-97
LADC-2856	58-86	LADC-2885	58-274
LADC-2858	58-195	LADC-2893	58-171
LADC-2859	57-105	LADC-2894	57-92
LADC-2860	57-100	LADC-2895	58-239
LADC-2861	57-1	LADC-2897	58-240
LADC-2862	57-104	LADC-2898	58-110
LADC-2864	57-123	LADC-2899	57-58
LADC-2866	57-97	LADC-2900	58-218
LADC-2867	57-35	LADC-2906	57-20
LADC-2868	59-31A 60-79	LADC-2907	58-22
LADC-2869	57-69	LADC-2909	57-117
LADC-2871	58-216	LADC-2910	58-231
LADC-2872	58-100	LADC-2912	57-11
LADC-2874	57-107	LADC-2913	58-65
LADC-2875	57-167	LADC-2914	57-22A
LADC-2876	57-116	LADC-2915	57-24A 58-1
LADC-2877	58-193	LADC-2916	57-1A 58-131
LADC-2879	57-125	LADC-2917	57-42A
LADC-2880	57-176 58-254 Add-110	LADC-2918	58-249
LADC-2881	58-154	LADC-2919	58-215
		LADC-2920	58-144



	<u>1957</u> (Cont'd.)		<u>1957</u> (Cont'd.)
LADC-2922	58-64	LADC-2953	58-271
LADC-2923	58-141	LADC-2955	57-68
LADC-2924	58-36	LADC-2956	58-152
LADC-2925	57-28A 61-151	LADC-2959	57-182
LADC-2926	57-149	LADC-2963	58-80 61-74
LADC-2929	57-48A 58-235	LADC-2964	58-267
LADC-2930	58-161 59-129	LADC-2966a	58-117
LADC-2931	58-78	LADC-2966b	58-115
LADC-2932	58-178 59-90	LADC-2973	57-129
LADC-2933	58-225	LADC-2974	59-222
LADC-2934	58-109	LADC-2975	58-264
LADC-2937	58-35	LADC-2977	58-113
LADC-2940	58-69	LADC-2979	58-20
LADC-2942	58-230	LADC-2980	57-197
LADC-2943	58-75	LADC-2984	58-157
LADC-2944	58-279	LADC-2985	59-56
LADC-2946	57-63	LADC-2986	58-13A 58-67
LADC-2948	58-111	LADC-2987	59-117
LADC-2950	57-17	LADC-2988	59-97
LADC-2951	57-59 58-16A	LADC-2989	58-212
		LADC-2994	59-49
		LADC-2995	58-180

	<u>1957</u> (Cont'd.)		<u>1957</u> (Cont'd.)
LADC-2997	58-119	LADC-3069	58-74 58-15A
LADC-3002	57-30A	LADC-3070	57-29
LADC-3003	57-31A	LADC-3071	58-209
LADC-3007	58-48	LADC-3072	58-33A
LADC-3011	58-27	LADC-3081	58-258
LADC-3012	60-11 61-163	LADC-3084	57-50A
LADC-3013	58-237	LADC-3086	58-149
LADC-3014	58-38A	LADC-3087	58-221
LADC-3015	58-6A	LADC-3088	58-148
LADC-3016	58-57A	LADC-3089	61-214
LADC-3017	58-35A	LADC-3090	61-143
LADC-3018	58-106	LADC-3091	58-8
LADC-3019	58-43 59-35	LADC-3096	58-34
LADC-3020	59-218	LADC-3097	57-2A 58-90
LADC-3022	58-24	LADC-3098	59-153
LADC-3028	58-283	LADC-3099	58-114
LADC-3037	59-105	LADC-3100	61-56
LADC-3051	58-155	LADC-3101	61-245
LADC-3052	58-220	LADC-3102	58-211
LADC-3056	58-46	LADC-3103	58-197
LADC-3057	58-204	LADC-3104	58-5
LADC-3058	58-87	LADC-3106	58-150

<u>1957</u> (Cont'd.)		<u>1957</u> (Cont'd.)	
LADC-3107	61-256	LADC-3144	58-246
LADC-3108	59-166	LADC-3145	58-26
LADC-3109	59-38	LADC-3146	59-99
LADC-3110	59-36	LADC-3147	58-47A
LADC-3111	58-77	LADC-3150	58-208 59-61A
LADC-3112	58-132	LADC-3155	59-22
LADC-3114	57-5 58-6	LADC-3157	58-91
LADC-3115	58-194	LADC-3159	60-56
LADC-3118	57-121 59-131	LADC-3162	59-7
LADC-3119	61-47	LADC-3163	58-234
LADC-3120	58-190	LADC-3164	58-187
LADC-3123	61-133	LADC-3165	58-121
LADC-3125	60-18	LADC-3166	58-30A 59-110
LADC-3126	57-98 58-133	LADC-3167	58-23
LADC-3128	58-28A	LADC-3168	58-83
LADC-3131	58-58	LADC-3170	58-81
LADC-3132	58-273	LADC-3173	58-41 Add-76
LADC-3133	58-260	LADC-3175	58-134
LADC-3138	58-189	LADC-3176	58-33
LADC-3140	58-96	LADC-3178	58-268
LADC-3141	Add-70	LADC-3179	58-163

<u>1957</u> (Cont 'd.)		<u>1958</u> (Cont 'd.)	
LADC-3180	58-179	LADC-3217	58-12
LADC-3185	58-277	LADC-3218	58-22A 59-74
LADC-3187	58-200	LADC-3219	58-103
LADC-3190	58-4A 59-32	LADC-3220	58-52
LADC-3191	58-56	LADC-3221	58-60
LADC-3192	58-49A	LADC-3222	58-247
LADC-3196	58-242	LADC-3224	58-142
LADC-3198	58-112	LADC-3225	58-192
LADC-3199	58-241	LADC-3227	59-62
LADC-3202	58-199	LADC-3228	58-123
LADC-3203	58-276	LADC-3229	58-18
LADC-3204	58-31	LADC-3230	58-70
LADC-3205	58-147	LADC-3235	58-143
LADC-3207	58-38 58-5A	LADC-3236	58-50
LADC-3208	58-173	LADC-3240	58-245
		LADC-3241	58-59
		LADC-3243	58-51A 60-197
	<u>1958</u>	LADC-3244	58-34A 59-130
LADC-3209	58-160	LADC-3245	58-137
LADC-3210	58-263	LADC-3246	59-113
LADC-3213	58-101 58-102	LADC-3247	58-107
LADC-3216	58-223		

	<u>1958</u> (Cont 'd.)		<u>1958</u> (Cont 'd.)
LADC-3248	58-40	LADC-3285	58-28
LADC-3249	58-125	LADC-3286	58-21A
LADC-3250	58-39	LADC-3287	58-280
LADC-3251	58-11A	LADC-3290	58-7A
LADC-3253	60-141	LADC-3291	59-151
LADC-3256	58-30	LADC-3293	58-159
LADC-3257	58-27A 59-88	LADC-3294	59-72
LADC-3259	58-165	LADC-3295	59-73
LADC-3261	58-63	LADC-3296	59-70
LADC-3264	60-254	LADC-3297	58-226
LADC-3266	58-21	LADC-3298	59-14
LADC-3268	58-68A	LADC-3299	60-166
LADC-3270	58-89 58-23A 59-6	LADC-3301	58-170
LADC-3271	58-281 58-66A	LADC-3304	58-13
LADC-3272	58-8A	LADC-3309	58-282
LADC-3273	58-63A	LADC-3310	58-16
LADC-3274	58-48A	LADC-3312	58-61A
LADC-3275	58-232	LADC-3314	58-56A
LADC-3277	58-259	LADC-3317	58-32A
LADC-3282	59-159	LADC-3318	58-227
LADC-3283	58-167	LADC-3319	58-58A
		LADC-3320	57-3A 58-17

	<u>1958</u> (Cont'd.)		<u>1958</u> (Cont'd.)
LADC-3321	58-217	LADC-3362	59-155
LADC-3322	58-210	LADC-3363	58-181
LADC-3325	58-266	LADC-3364	58-214
LADC-3327	58-177	LADC-3365	59-169
LADC-3329	58-26A	LADC-3366	58-59A
LADC-3331	58-50A	LADC-3367	58-104
LADC-3332	58-124 61-112	LADC-3369a	59-162
LADC-3334	58-98 58-25A	LADC-3369b	59-40
LADC-3335	58-257	LADC-3370	58-172
LADC-3337	58-207	LADC-3371	59-57
LADC-3341	58-108	LADC-3373	Add-39
LADC-3342	58-146	LADC-3374	58-205
LADC-3343	58-162	LADC-3375	58-202
LADC-3345	58-201	LADC-3376	58-15
LADC-3348	58-116	LADC-3378	59-24A 60-64
LADC-3349	58-136	LADC-3379	59-137
LADC-3350	58-7	LADC-3384	60-8
LADC-3355	58-14A Add-34	LADC-3385	60-266
LADC-3357	Add-4	LADC-3386	58-151
LADC-3359	59-168	LADC-3387	58-238
LADC-3360	59-168	LADC-3391	58-25
		LADC-3394	59-69

	<u>1958</u> (Cont 'd.)		<u>1958</u> (Cont 'd.)
LADC-3398	58-82	LADC-3447	58-129
LADC-3399	58-53 Add-28	LADC-3448	59-206
LADC-3400	59-76A	LADC-3449	59-30
LADC-3401	Add-21	LADC-3450	58-105
LADC-3404	58-191	LADC-3456	58-10
LADC-3405	59-187	LADC-3457	58-11
LADC-3406	58-18A 59-64	LADC-3458	58-54A
LADC-3407	58-261 58-62A	LADC-3459	58-55A
LADC-3417	59-210	LADC-3460	58-10A
LADC-3418	59-211	LADC-3461	61-249
LADC-3423	59-189	LADC-3465	58-65A 59-215
LADC-3424	59-190	LADC-3469	58-14
LADC-3426	58-169	LADC-3470	58-9A
LADC-3429	59-82	LADC-3472	59-199
LADC-3431	58-99	LADC-3476	58-52A
LADC-3432	59-188	LADC-3477	59-78
LADC-3436	59-66	LADC-3478	59-11
LADC-3442	59-25	LADC-3479	59-196
LADC-3443	58-64A	LADC-3484	59-16
LADC-3444	58-19A	LADC-3485	58-73
LADC-3446	58-51	LADC-3486	59-205
		LADC-3487	Add-117

<u>1958</u> (Cont 'd.)		<u>1958</u> (Cont 'd.)	
LADC-3488	58-9	LADC-3523	58-243
LADC-3489	58-278	LADC-3526	59-48
LADC-3490	58-71	LADC-3527	58-12A 59-47
LADC-3491	58-31A 59-111	LADC-3528	59-118
LADC-3495	58-166	LADC-3530	59-46
LADC-3496	59-93	LADC-3531	58-60A
LADC-3497	58-84	LADC-3532	60-73
LADC-3498	58-270	LADC-3533	59-17
LADC-3500	59-11A	LADC-3534	59-98
LADC-3502	59-71	LADC-3536	58-36A 59-5
LADC-3503	59-164	LADC-3537	59-8
LADC-3504	59-84	LADC-3538	59-203
LADC-3508	58-39A	LADC-3539	59-195
LADC-3509	58-40A	LADC-3541	58-72
LADC-3510	60-7	LADC-3542	58-53A
LADC-3512	59-25A	LADC-3547	59-60 59-29A
LADC-3513	59-125	LADC-3548	59-59
LADC-3515	59-39	LADC-3549	59-112
LADC-3517	59-175	LADC-3551	60-112
LADC-3519	59-219	LADC-3552	59-51A
LADC-3520	59-213	LADC-3553	59-23
LADC-3521	59-214		



	<u>1958</u> (Cont'd.)		<u>1958</u> (Cont'd.)
LADC-3556	58-17A 60-17	LADC-3600	59-52A
LADC-3557	59-176	LADC-3601	60-54
LADC-3558	58-29A 59-104	LADC-3603	59-6A
LADC-3561	58-67A 59-217	LADC-3604	59-27A
LADC-3565	59-85	LADC-3605	59-19A
LADC-3568	59-18	LADC-3607	59-128
LADC-3569	59-201	LADC-3609	59-56A 60-174 60-175
LADC-3571	58-2A	LADC-3610	59-21
LADC-3573	59-37	LADC-3611	59-15
LADC-3578	59-10	LADC-3616	60-119
LADC-3579	59-87	LADC-3617	59-192
LADC-3580	59-86	LADC-3618	59-126 60-145
LADC-3581	59-122	LADC-3625	59-32A 60-84
LADC-3582	59-109	LADC-3629	59-12
LADC-3586	59-193	LADC-3630	59-96
LADC-3587	59-54	LADC-3631	59-31
LADC-3590	59-43	LADC-3633	59-108
LADC-3591	59-30A	LADC-3635	59-170
LADC-3593	59-177	LADC-3636	59-80
LADC-3594	59-42	LADC-3637	59-107
LADC-3595	59-65A	LADC-3638	59-141



	<u>1959</u> (Cont'd.)		<u>1959</u> (Cont'd.)
LADC-3703	60-255	LADC-3729	59-15A
LADC-3704	60-90	LADC-3730	59-204
LADC-3707b	60-154	LADC-3731	59-89 59-36A
LADC-3707c	60-155	LADC-3732	59-10A
LADC-3708	59-181	LADC-3733	59-70A
LADC-3709	59-13	LADC-3734	59-40A
LADC-3711	59-67	LADC-3735	59-16A
LADC-3712	59-200	LADC-3739	59-12A
LADC-3713	59-1A	LADC-3740	60-248
LADC-3714	59-58	LADC-3741	59-4
LADC-3715	Add-46	LADC-3742	59-62A
LADC-3718	59-28A	LADC-3743	59-152
LADC-3719	59-156	LADC-3744	59-119
LADC-3720	60-69	LADC-3745	59-41
LADC-3721	59-37A	LADC-3746	60-274
LADC-3722	59-42A	LADC-3748	61-186
LADC-3723	59-20A	LADC-3750	59-198
LADC-3724	59-68A 60-230	LADC-3751	Add-86
LADC-3725	59-4A	LADC-3752	59-26
LADC-3726	59-23A	LADC-3754	59-150
LADC-3727	59-54A	LADC-3755	59-191
LADC-3728	59-9A	LADC-3756	59-50

	<u>1959</u> (Cont'd.)		<u>1959</u> (Cont'd.)
LADC-3758	59-81	LADC-3804	59-34
LADC-3761	59-50A	LADC-3805	59-19
LADC-3762	59-92	LADC-3806	59-20
LADC-3763	60-234	LADC-3807	59-136
LADC-3764	60-114	LADC-3812	59-53
LADC-3767	61-75	LADC-3813	59-165
LADC-3771	59-24	LADC-3814	61-27
LADC-3773	59-185	LADC-3816	60-259
LADC-3775	59-101	LADC-3817	60-235
LADC-3778	59-77	LADC-3819	59-91
LADC-3779	59-7A	LADC-3820	59-124
LADC-3780	59-115	LADC-3821	60-249
LADC-3781	59-116	LADC-3822	60-65
LADC-3782	62-119	LADC-3824	61-146
LADC-3783	62-286	LADC-3826	60-140
LADC-3785	59-157	LADC-3827	59-154
LADC-3787	60-71	LADC-3830	60-146
LADC-3789	59-123	LADC-3831	60-106
LADC-3790	60-163	LADC-3840	59-212
LADC-3794	59-44A	LADC-3842	59-76
LADC-3795	59-3	LADC-3845	60-183 60-43A
LADC-3796	59-9	LADC-3846	60-50
LADC-3802	59-114		

<u>1959</u> (Cont 'd.)		<u>1959</u> (Cont 'd.)	
LADC-3847	60-1	LADC-3882	59-41A
LADC-3851	60-151	LADC-3883	59-95
LADC-3852	57-36A	LADC-3884	59-58A 60-184
LADC-3853	59-28	LADC-3885	61-96
LADC-3854	60-212	LADC-3886	61-101
LADC-3857	59-59A	LADC-3887	60-31
LADC-3859	59-183 60-228	LADC-3889	59-60A
LADC-3860	60-276	LADC-3890	60-71
LADC-3862	60-9	LADC-3891	60-133
LADC-3863	60-150	LADC-3892	59-21A
LADC-3864	60-268	LADC-3893	59-18A
LADC-3865	60-76	LADC-3895	59-77A
LADC-3866	59-103	LADC-3896	59-69A 60-232
LADC-3868	60-217	LADC-3897	59-3A
LADC-3869	60-201	LADC-3898	59-208
LADC-3870	59-43A 61-137	LADC-3899	60-171
LADC-3872	60-251	LADC-3900	60-98
LADC-3875	60-20	LADC-3901	60-38
LADC-3876	60-92	LADC-3902	60-170
LADC-3879	59-121	LADC-3903	60-263
LADC-3880	59-33A	LADC-3904	60-25
LADC-3881	59-34A	LADC-3905	60-193

	<u>1959</u> (Cont'd.)		<u>1959</u> (Cont'd.)
LADC-3909	60-4	LADC-3946	60-28
LADC-3910	59-29	LADC-3947	59-61
LADC-3911	60-16	LADC-3948	61-122
LADC-3913	60-198	LADC-3949	60-91
LADC-3914	59-38A	LADC-3950	59-45
LADC-3915	60-219	LADC-3951	60-103
LADC-3916	60-67	LADC-3953	60-118
LADC-3917	60-66	LADC-3954	60-188
LADC-3918	60-277	LADC-3958	60-241 60-54A
LADC-3920	59-5A	LADC-3960	59-74A
LADC-3921	59-14A	LADC-3963	60-256
LADC-3925	59-147	LADC-3964	60-109
LADC-3927	60-82	LADC-3966	60-45
LADC-3928	60-160	LADC-3967	61-25
LADC-3930	59-44 62-48	LADC-3968	60-182
LADC-3931	60-6	LADC-3969	59-202
LADC-3932	59-73A	LADC-3971	60-104
LADC-3933	59-1	LADC-3973	60-10
LADC-3937	60-202	LADC-3974	59-22A
LADC-3940	61-102	LADC-3978	59-146
LADC-3943	59-132	LADC-3979	60-77
LADC-3944	60-81	LADC-3980	60-270

	<u>1959</u> (Cont'd.)		<u>1959</u> (Cont'd.)
LADC-3982	59-46A 60-152	LADC-4018	60-37
LADC-3983	60-105	LADC-4020	60-164
LADC-3984	60-63	LADC-4022	60-168
LADC-3985	60-275	LADC-4025	59-26A 60-18A
LADC-3986	60-181	LADC-4026	60-22
LADC-3987	59-55A	LADC-4027	60-39
LADC-3988	59-13A	LADC-4031	60-144
LADC-3989	60-210	LADC-4032	60-242
LADC-3991	59-2	LADC-4033	60-203
LADC-3992	60-209	LADC-4034	60-225
LADC-3995	Add-98	LADC-4035	60-264
LADC-3996	60-167	LADC-4038	60-120
LADC-3999	61-254	LADC-4041	59-67A 61-229
LADC-4000	60-229	LADC-4042	60-257
LADC-4001	60-208	LADC-4044	59-39A 60-111
LADC-4002	60-80	LADC-4045	60-107 60-108
LADC-4003	60-130	LADC-4046	60-137
LADC-4004	59-148	LADC-4047	62-288
LADC-4013	60-78	LADC-4048	61-55A
LADC-4014	60-117	LADC-4049	60-50A
LADC-4016	60-15A	LADC-4051	60-250
LADC-4017	60-29		

	<u>1959</u> (Cont'd.)		<u>1959</u> (Cont'd.)
LADC-4052	60-2A	LADC-4087	61-194
LADC-4053	60-24A	LADC-4091	61-177
LADC-4054	60-53A	LADC-4092	61-176
LADC-4056	60-37A	LADC-4094	60-233
LADC-4057	60-60A	LADC-4095	60-206 60-38A
LADC-4058	60-22A	LADC-4096	60-199
LADC-4060	60-25A	LADC-4097	57-19A
LADC-4061	60-45A 61-127	LADC-4099	61-243
LADC-4062	60-26A	LADC-4100	61-170
LADC-4064	60-34A	LADC-4102	60-195
LADC-4066	60-258	LADC-4103	60-196
LADC-4068	60-194	LADC-4105	60-246
LADC-4069	60-186	LADC-4106	60-49
LADC-4070	60-62A	LADC-4107	60-158
LADC-4072	60-68	LADC-4110	61-64
LADC-4073	60-220	LADC-4111	60-12A
LADC-4076	60-85	LADC-4114	61-78
LADC-4077	60-185	LADC-4115	59-178
LADC-4079	60-2	LADC-4117	62-180
LADC-4081	60-95	LADC-4119	61-272
LADC-4082	60-59	LADC-4120	61-83
LADC-4083	60-7A	LADC-4121	60-238
LADC-4084	61-43	LADC-4122	60-110



	<u>1959</u> (Cont'd.)		<u>1960</u> (Cont'd.)
LADC-4124	60-97	LADC-4165	60-139
LADC-4125	60-58	LADC-4166	61-161
LADC-4126	60-240	LADC-4167	61-213
LADC-4127	60-211	LADC-4168	60-148
LADC-4128	60-75	LADC-4169a	60-162
LADC-4129	61-136	LADC-4169b	61-30A
LADC-4130	60-3	LADC-4172	60-58A
LADC-4135	61-145	LADC-4173	60-262
LADC-4141	60-134	LADC-4175	60-89 61-86
		LADC-4176	61-242
		LADC-4178	61-257
		LADC-4179	Add-104
		LADC-4180	60-21
		LADC-4181	60-142
		LADC-4185	61-36
		LADC-4186	61-246
		LADC-4187	60-9A
		LADC-4188	60-8A
		LADC-4189	60-51A
		LADC-4190	60-11A
		LADC-4192	60-62
		LADC-4193	60-224
	<u>1960</u>		
LADC-4143	61-100		
LADC-4145	60-222		
LADC-4146	61-212		
LADC-4147	61-215		
LADC-4150	60-156		
LADC-4151	61-207		
LADC-4152	61-108		
LADC-4154	60-27A		
LADC-4158	60-149		
LADC-4161	61-188		
LADC-4162	60-115		
LADC-4164	60-177		

	<u>1960</u> (Cont'd.)		<u>1960</u> (Cont'd.)
LADC-4195	60-131	LADC-4242	61-84
LADC-4197	60-12	LADC-4243	59-57A 60-180
LADC-4199	61-88	LADC-4244	60-121
LADC-4200	60-157	LADC-4245	60-14 60-187
LADC-4202	61-9	LADC-4246	60-24
LADC-4203	58-41A	LADC-4248	61-18A
LADC-4205	60-272	LADC-4249	60-113
LADC-4208	61-175	LADC-4250	61-45
LADC-4212	61-76	LADC-4251	61-195
LADC-4213	60-159	LADC-4253	60-6A
LADC-4214	60-63A	LADC-4258	61-147
LADC-4215	60-16A 62-54	LADC-4260	60-176
LADC-4218	61-253	LADC-4261	60-21A
LADC-4219	61-3	LADC-4262	60-10A
LADC-4221	60-138	LADC-4263	60-46A
LADC-4223	60-52	LADC-4264	60-36A
LADC-4225	61-72	LADC-4266	60-3A
LADC-4227	60-127	LADC-4267	60-31A
LADC-4229	59-180	LADC-4268	60-48A
LADC-4230	60-172	LADC-4273	62-70
LADC-4233	61-90	LADC-4284	60-200 60-49A
LADC-4234	61-89		
LADC-4236	61-16		

<u>1960</u> (Cont 'd.)		<u>1960</u> (Cont 'd.)	
LADC-4285	60-59A	LADC-4323	60-143
LADC-4286	58-42A 58-43A 61-178	LADC-4324	60-265
LADC-4294	60-192	LADC-4325	60-236
LADC-4295	60-179	LADC-4326	61-255
LADC-4297	60-32	LADC-4329	61-31
LADC-4300	61-227	LADC-4330	60-245 61-169
LADC-4302	61-63	LADC-4336	62-156
LADC-4303	61-251	LADC-4338	60-237
LADC-4304	61-162	LADC-4340	61-65
LADC-4305	61-42	LADC-4342	62-148 62-149
LADC-4306	61-41 61-42	LADC-4344	60-53
LADC-4307	61-110	LADC-4346	60-122 60-123
LADC-4308a	60-243	LADC-4347	60-27
LADC-4308b	61-244	LADC-4348	60-227
LADC-4309	60-28A 61-141	LADC-4349	60-56A
LADC-4310	60-44	LADC-4356	60-190
LADC-4314	61-140	LADC-4359	60-20A
LADC-4315	60-221	LADC-4360	60-19A
LADC-4319	61-37	LADC-4361	60-41
LADC-4320	61-158	LADC-4362	60-74
LADC-4321	61-264		

	<u>1960</u> (Cont'd.)		<u>1960</u> (Cont'd.)
LADC-4363	60-189	LADC-4396	60-42
LADC-4364	60-125	LADC-4397	60-101
LADC-4365	60-271	LADC-4398	60-96
LADC-4368	60-30A	LADC-4401	62-209
LADC-4369	60-44A	LADC-4402	61-166
LADC-4370	60-42A	LADC-4403	60-205
LADC-4371	61-172	LADC-4404	61-171
LADC-4372	60-35A 61-164	LADC-4406	61-187
LADC-4375	61-167	LADC-4411	60-88
LADC-4376	60-100	LADC-4412	60-260
LADC-4377	60-26 62-232	LADC-4417	60-239
LADC-4379	61-121	LADC-4418	61-235
LADC-4381	62-102	LADC-4419	61-265
LADC-4383	60-61	LADC-4422	61-179
LADC-4384	61-24	LADC-4423	60-128
LADC-4385	60-204	LADC-4424	60-252
LADC-4386	60-244	LADC-4425	60-86
LADC-4387	61-132	LADC-4427	61-94
LADC-4389	60-169	LADC-4428a	60-93
LADC-4391	61-33	LADC-4428b	61-92
LADC-4392	61-14	LADC-4429	61-18
LADC-4394	60-41A	LADC-4432	60-52A 61-232

<u>1960</u> (Cont'd.)		<u>1960</u> (Cont'd.)	
LADC-4433	62-20	LADC-4477	60-99
LADC-4434	60-60 61-14A	LADC-4478	60-135
LADC-4435	60-207	LADC-4484	61-252
LADC-4438	60-116	LADC-4485	61-10
LADC-4441	60-161	LADC-4488	60-39A
LADC-4442	60-136	LADC-4489	60-132
LADC-4448	61-241	LADC-4491	61-236
LADC-4449	60-33	LADC-4492	61-98
LADC-4450	62-25	LADC-4493	60-40A 62-186
LADC-4451	61-198	LADC-4494	62-188
LADC-4458	61-238	LADC-4495	61-93
LADC-4460	60-33A	LADC-4500	60-102
LADC-4462	60-51	LADC-4501	60-269
LADC-4465	61-142	LADC-4502	61-260 61-261
LADC-4466	61-125	LADC-4504	60-29A
LADC-4468	61-4	LADC-4512	60-173
LADC-4469	60-218	LADC-4514	57-43A
LADC-4470	62-207	LADC-4515	61-81 61-82
LADC-4472	61-262	LADC-4516	62-35
LADC-4473	61-97	LADC-4520	60-215 61-209
LADC-4475	Add-48	LADC-4522	Add-45 Add-47
LADC-4476	61-183		

	<u>1960</u> (Cont'd.)		<u>1960</u> (Cont'd.)
LADC-4523	61-51A	LADC-4567	61-192
LADC-4527	60-267	LADC-4568	61-185
LADC-4530	61-38	LADC-4572	61-150
LADC-4535	61-20	LADC-4573	61-180
LADC-4537	61-230 61-231	LADC-4575	60-1A 61-1
LADC-4538	61-22	LADC-4576	61-201
LADC-4541	60-47A	LADC-4578	61-139
LADC-4542	61-50A	LADC-4579	60-57A 62-287
LADC-4543	61-45A	LADC-4581	61-26A 62-30A
LADC-4544	61-41A	LADC-4582	60-17A
LADC-4547	61-138	LADC-4583	60-23A 62-58 62-118
LADC-4548	60-178	LADC-4584	60-32A 62-171
LADC-4550	61-59	LADC-4585	61-85
LADC-4551	61-37A	LADC-4587	61-269
LADC-4552	61-11A	LADC-4589	62-51A 62-231
LADC-4553	58-44A	LADC-4590	62-277
LADC-4556	61-270	LADC-4592	62-60A 62-269 62-270
LADC-4558	61-266	LADC-4595	60-124
LADC-4559	61-71		
LADC-4560	61-203		
LADC-4561	62-57		
LADC-4566	61-111		

	<u>1960</u> (Cont'd.)		<u>1960</u> (Cont'd.)
LADC-4596	61-30	LADC-4630	61-51
LADC-4597	61-5	LADC-4633	61-109
LADC-4599	61-181	LADC-4634	61-103
LADC-4600	61-24A	LADC-4636	61-205
LADC-4606	61-200	LADC-4641	61-129
LADC-4608	61-52	LADC-4643	62-114
LADC-4610	61-77	LADC-4647	61-152
LADC-4612	61-29	LADC-4648	61-173
LADC-4613	61-131	LADC-4649	60-4A
LADC-4615	62-68	LADC-4650	61-62
LADC-4616	61-191	LADC-4651	61-58
LADC-4617	61-273	LADC-4654	61-36A 61-182
LADC-4618	61-19A	LADC-4655	61-61
LADC-4620	61-263	LADC-4656	61-48A
LADC-4621	61-144	LADC-4657	61-174
LADC-4622	61-35A	LADC-4659	61-67 61-70
LADC-4623	61-154	LADC-4661	61-25A
LADC-4624	61-27A	LADC-4664	61-268
LADC-4625	61-28	LADC-4666	61-159
LADC-4626	62-196	LADC-4668	61-226
LADC-4626a	62-197	LADC-4670	61-184
LADC-4627	61-31A 62-174	LADC-4671	61-190
		LADC-4672	62-36

<u>1961</u>		<u>1961 (Cont'd.)</u>	
LADC-4675	61-216	LADC-4715	61-99
LADC-4680	61-239	LADC-4716	61-2
LADC-4681	61-25	LADC-4720	61-33A
LADC-4683	61-104	LADC-4721	61-34A 61-165 62-182
LADC-4684	61-116		
LADC-4685	61-40A 62-212	LADC-4722	61-10A
LADC-4686	62-291	LADC-4723	61-46A
LADC-4687	62-11	LADC-4724	61-21 61-44A
LADC-4688	61-39	LADC-4725	61-3A
LADC-4691	61-237	LADC-4726	61-22A
LADC-4693	61-247	LADC-4727	61-199
LADC-4694	61-206	LADC-4728	61-54A
LADC-4696	61-196	LADC-4730	61-16A
LADC-4697	61-23	LADC-4731	61-15A
LADC-4703	61-60	LADC-4733	61-259
LADC-4705	61-4A 61-15	LADC-4734	61-168
LADC-4706	61-12A	LADC-4735	61-53A 62-278
LADC-4708	62-273	LADC-4736	61-233
LADC-4709	62-294	LADC-4739	61-8A
LADC-4710	61-50	LADC-4740	61-114
LADC-4712	61-48	LADC-4742	62-88
LADC-4713	61-217	LADC-4743	62-223



<u>1961</u> (Cont'd.)		<u>1961</u> (Cont'd.)	
LADC-4746	61-39A	LADC-4792	61-234
LADC-4753	62-211		61-38A
LADC-4756	Add-80	LADC-4793	61-56A
LADC-4757	61-23A	LADC-4794	61-155
LADC-4758	61-19	LADC-4795	62-282
LADC-4759	61-6A	LADC-4796	62-206
LADC-4761	61-46	LADC-4797	61-52A
LADC-4764	62-283	LADC-4798	61-20A
LADC-4767	62-144	LADC-4800	62-150
LADC-4768	61-204	LADC-4801	61-17A
LADC-4769	61-9A	LADC-4803	61-28A
LADC-4770	61-193	LADC-4804	61-32A
LADC-4773	61-211	LADC-4805	62-276
LADC-4776	61-7	LADC-4806	62-266 62-58A
LADC-4778	61-113	LADC-4807	61-42A
LADC-4779	61-12	LADC-4808	61-43A
LADC-4780	61-124	LADC-4809	61-13A
LADC-4782	61-218	LADC-4811	61-1A 62-112
LADC-4785	61-148	LADC-4814	62-83
LADC-4786	61-21A	LADC-4816	62-249
LADC-4787	61-17	LADC-4818	62-41
LADC-4790	61-119	LADC-4824	62-175
LADC-4791	62-122 62-246		

	<u>1961</u> (Cont'd.)		<u>1961</u> (Cont'd.)
LADC-4825	62-104	LADC-4872	61-228
LADC-4826	62-158	LADC-4874	61-135
LADC-4828	62-233	LADC-4875	62-210
LADC-4829	62-117	LADC-4880	61-29A
LADC-4830	62-59	LADC-4886	61-149
LADC-4831	62-10	LADC-4888	62-253
LADC-4832	62-106	LADC-4889	62-230
LADC-4833	61-240	LADC-4890	62-179
LADC-4834	62-111	LADC-4891	61-208
LADC-4836	62-272	LADC-4892	62-296
LADC-4837	62-71	LADC-4893	61-8
LADC-4841	61-32	LADC-4894	62-183
LADC-4842	62-2	LADC-4895	61-118
LADC-4843	61-123	LADC-4896	61-115
LADC-4852	61-2A	LADC-4897	62-99
LADC-4854	62-247	LADC-4899	62-63
LADC-4856	62-24	LADC-4900	62-202
LADC-4860	62-208	LADC-4901	61-189
LADC-4864	61-225	LADC-4906	62-201
LADC-4865	62-257	LADC-4910	Add-78
LADC-4866	62-65A	LADC-4911	62-237
LADC-4869	62-126	LADC-4912	61-224
LADC-4870	62-152	LADC-4916	62-268

<u>1961</u> (Cont'd.)		<u>1961</u> (Cont'd.)	
LADC-4919	61-5A 62-67	LADC-4961	61-91
LADC-4920	62-228	LADC-4962	62-168
LADC-4921	61-107	LADC-4963	61-258
LADC-4922	62-84	LADC-4964	62-178
LADC-4923	61-210	LADC-4965	62-28
LADC-4924	61-248	LADC-4966	62-173
LADC-4926	61-13	LADC-4968	62-10A
LADC-4927	61-79	LADC-4969	62-14 62-3A
LADC-4929	61-69	LADC-4970	62-169
LADC-4930	62-79	LADC-4972	61-128
LADC-4931	62-218	LADC-4974	62-128
LADC-4932	62-146	LADC-4982	62-139
LADC-4934	62-243	LADC-4983	62-153
LADC-4939	62-47	LADC-4984	62-109 62-25A
LADC-4944	62-103	LADC-4986	62-213
LADC-4949	62-113	LADC-4987	62-65 62-134
LADC-4950	61-117	LADC-4991	62-62
LADC-4951	61-80	LADC-4993	61-26
LADC-4955	62-15	LADC-4994	62-48A
LADC-4958	62-105	LADC-4995	62-12A
LADC-4959	62-191	LADC-4996	62-289
LADC-4960	62-258		

	<u>1961</u> (Cont'd.)		<u>1961</u> (Cont'd.)
LADC-4997	61-55	LADC-5034	62-190
LADC-4998	61-105	LADC-5035	62-73
LADC-4999	62-172	LADC-5036	62-21
LADC-5002	61-6 62-192	LADC-5037	61-44
LADC-5003	62-239	LADC-5038	62-227
		LADC-5042	62-95
LADC-5004	61-11	LADC-5045	62-127
LADC-5005	61-11	LADC-5048	62-101
LADC-5006	62-164	LADC-5049	62-215
LADC-5007	62-34	LADC-5050	62-259
LADC-5009	62-185	LADC-5053	62-9
LADC-5010	62-138	LADC-5055	62-8
LADC-5011	62-200	LADC-5056	62-285
LADC-5013	62-55	LADC-5057	62-96
LADC-5016	62-154	LADC-5058	62-40
LADC-5018	62-151	LADC-5060	61-202
LADC-5019	62-7	LADC-5061	62-222
LADC-5021	62-33	LADC-5062	61-54
LADC-5023	62-90	LADC-5067	62-44A
LADC-5024	62-115	LADC-5068	62-57A
LADC-5025	61-153	LADC-5069	62-184
LADC-5032	62-60	LADC-5070	62-15A
		LADC-5071	62-9A

<u>1961</u> (Cont'd.)		<u>1961</u> (Cont'd.)	
LADC-5072	62-64 62-40A	LADC-5125	62-78
LADC-5073	62-82	LADC-5126	62-176
LADC-5074	62-224	LADC-5128	62-14A
LADC-5077	62-47A	LADC-5129	62-19A
LADC-5080	62-23A	LADC-5130	58-44 61-40
LADC-5081	62-50A	LADC-5132	62-52A
LADC-5083	62-297	LADC-5134	62-198
LADC-5084	62-170	LADC-5136	62-76
LADC-5085	62-66	LADC-5138	62-219
LADC-5088	62-255	LADC-5140	62-242
LADC-5092	62-77	LADC-5141	62-130
LADC-5094	62-86	LADC-5142	62-256
LADC-5097	62-275	LADC-5143	62-17A
LADC-5099	62-137	LADC-5145	62-29
LADC-5103	62-295	LADC-5146	62-27
LADC-5105	62-50	LADC-5147b LADC-5147	62-30 62-7A
LADC-5114	62-267	LADC-5149	62-124
LADC-5115	Add-16	LADC-5150	62-163
LADC-5118	62-21A	LADC-5151	62-195 62-43A
LADC-5119	62-85	LADC-5152	62-4A
LADC-5122	62-5	LADC-5153	62-17
LADC-5123	62-141	LADC-5154	62-63A
LADC-5124	62-13A		

<u>1961</u> (Cont'd.)		<u>1961</u> (Cont'd.)	
LADC-5155	62-41A	LADC-5188	62-284
LADC-5156	62-49	LADC-5193	62-94
LADC-5157	62-194	LADC-5196	62-240
LADC-5160	62-26A	LADC-5197	62-264
LADC-5162	62-129	LADC-5199	62-107
LADC-5163	62-1	LADC-5202	62-6
LADC-5164	62-225	LADC-5203	62-160
LADC-5166	62-274		
LADC-5167	62-226	<u>1962</u>	
LADC-5169	62-52	LADC-5204	62-161
LADC-5171	62-250	LADC-5206	62-220
LADC-5172	62-235	LADC-5210	62-11A
LADC-5174	62-165	LADC-5211b	62-234
LADC-5175	62-187	LADC-5212	62-59A
LADC-5176	62-120	LADC-5213	62-116
LADC-5177	62-177	LADC-5214	62-23
LADC-5179	62-46A	LADC-5215	62-245
LADC-5181	62-260 62-55A	LADC-5216	62-125
LADC-5182	62-290	LADC-5220	62-265
LADC-5183	62-18A	LADC-5221	62-166
LADC-5186	62-145	LADC-5224	62-123
LADC-5187	62-44	LADC-5231	61-7A 62-39A

<u>1962</u> (Cont'd.)		<u>1962</u> (Cont'd.)	
LADC-5237	62-69	LADC-5275	62-13
LADC-5238	62-31A	LADC-5279	62-155
LADC-5239	62-54A	LADC-5280	62-42A
LADC-5240	62-147	LADC-5282	62-97
LADC-5241	62-22A	LADC-5283	62-98
LADC-5242	62-244	LADC-5284	62-45
LADC-5244	62-263 62-1A	LADC-5286	62-203
LADC-5245	62-262	LADC-5289	62-89
LADC-5249	62-16A	LADC-5290	62-251
LADC-5250	62-193	LADC-5292	62-12
LADC-5251	62-66A	LADC-5293	62-32
LADC-5252	62-8A	LADC-5301	62-93
LADC-5253	62-38A	LADC-5302	62-159
LADC-5256	62-45A	LADC-5303	62-162
LADC-5259	62-135	LADC-5306	62-92
LADC-5263	62-61A	LADC-5307	62-238
LADC-5264	62-74	LADC-5311	62-75
LADC-5266	62-72	LADC-5313	62-32A
LADC-5267	62-35A	LADC-5314	62-87
LADC-5271	62-214	LADC-5317	62-51
LADC-5272	62-221	LADC-5319	62-26
LADC-5273	62-16	LADC-5320	62-167
		LADC-5322	62-252

<u>1962</u> (Cont'd.)		<u>1962</u> (Cont'd.)	
LADC-5324	62-248	LADC-5369	Add-65
LADC-5325	61-197	LADC-5382	62-42
LADC-5326	62-31	LADC-5385	62-56A
LADC-5328	62-241	LADC-5386	62-36A
LADC-5329	Add-122	LADC-5387	62-62A
LADC-5331	62-157	LADC-5392	62-18
LADC-5333	Add-130	LADC-5393	62-27A
LADC-5334	62-254	LADC-5395	62-28A
LADC-5335	62-273	LADC-5402	62-34A
LADC-5337	62-53	LADC-5403	62-204
LADC-5339	61-134	LADC-5406	62-100
LADC-5345	62-293	LADC-5409	62-136
LADC-5347	62-236	LADC-5416	62-199
LADC-5349	62-19	LADC-5417	62-108
LADC-5350	62-271	LADC-5421	62-56
LADC-5351	62-37A	LADC-5422	62-261
LADC-5352	62-140	LADC-5423	62-110
LADC-5353	62-132	LADC-5424	62-29A
LADC-5355	62-131	LADC-5425	62-24A
LADC-5360	62-143	LADC-5429	62-53A
LADC-5361	62-5A	LADC-5436	62-20A
LADC-5364	62-91	LADC-5437	62-142
LADC-5368	62-229	LADC-5442	62-292 62-64A



	<u>1962</u> (Cont'd.)		<u>LADC-NN</u> (Cont'd.)
LADC-5460	62-2A	LADC-NN-5	59-68
LADC-5461	62-39	LADC-NN-6	58-20A
LADC-5462	62-33A	LADC-NN-7	60-47
LADC-5473	62-49A	LADC-NN-8	61-66
LADC-5479	62-205	LADC-NN-9	59-35A
LADC-5506	62-217	LADC-NN-10	60-14A
LADC-5520	62-6A	LADC-NN-11	60-14A
LADC-5523	57-198	LADC-NN-12	57-161
LADC-5536	62-22	LADC-NN-13	57-152
		LADC-NN-14	60-94
	<u>1963</u>	LADC-NN-15	58-176
LADC-5671	62-81	LADC-NN-16	57-32A
LADC-5672	62-80	LADC-NN-17	58-130
LADC-5699	Add-13	LADC-NN-18	57-23A
LADC-5701	Add-15	LADC-NN-19	61-47A
LADC-5705	Add-57	LADC-NN-20	60-36
LADC-5706	Add-58	LADC-NN-21	60-15
		LADC-NN-22	60-34
	<u>LADC-NN</u>	LADC-NN-23	60-87
LADC-NN-1	60-216	LADC-NN-24	60-35
LADC-NN-2	61-156	LADC-NN-25	57-62
LADC-NN-3	60-55	LADC-NN-26	59-161
LADC-NN-4	62-133	LADC-NN-27	58-95

<u>LADC-NN</u> (Cont'd.)		<u>LADC-NN</u> (Cont'd.)	
LADC-NN-28	58-93	LADC-NN-51	61-106
LADC-NN-29	58-94	LADC-NN-52	60-23
LADC-NN-30	57-71	LADC-NN-53	58-3A
LADC-NN-31	58-92	LADC-NN-54	62-38
LADC-NN-32	61-221	LADC-NN-55	60-43
LADC-NN-33	61-95	LADC-NN-56	60-48
LADC-NN-34	58-250	LADC-NN-57	61-49
LADC-NN-35	60-253	LADC-NN-58	62-46
LADC-NN-36	58-272	LADC-NN-59	59-52
LADC-NN-37	57-55	LADC-NN-60	60-57
LADC-NN-38	57-53	LADC-NN-61	57-41
LADC-NN-39	57-54	LADC-NN-62	60-19
LADC-NN-40	61-220	LADC-NN-64	57-47A
LADC-NN-41	58-168	LADC-NN-68	58-251
LADC-NN-42	58-206	LADC-NN-69	58-252
LADC-NN-43	61-219	LADC-NN-70	60-273
LADC-NN-44	60-226	LADC-NN-71	60-61A
LADC-NN-45	59-140	LADC-NN-72	59-207
LADC-NN-46	59-143	LADC-NN-73	58-256
LADC-NN-47	58-46A	LADC-NN-74	57-33 Add-27
LADC-NN-48	58-45A	LADC-NN-76	61-271
LADC-NN-49	57-138	LADC-NN-77	58-45
LADC-NN-50	58-186		

<u>LADC-NN</u> (Cont 'd.)		<u>LADC-NN</u> (Cont 'd.)	
LADC-NN-78	60-5	LADC-NN-103	57-108
LADC-NN-79	60-46	LADC-NN-106	62-280
LADC-NN-80	61-160	LADC-NN-107	58-66
LADC-NN-81	57-148	LADC-NN-108	61-34
LADC-NN-82	61-250	LADC-NN-109	62-61 Add-31
LADC-NN-85	61-49A	LADC-NN-110	62-181
LADC-NN-86	59-63A	LADC-NN-111	62-189
LADC-NN-87	58-37	LADC-NN-112	62-3
LADC-NN-88	58-1A	LADC-NN-113	62-43
LADC-NN-89	58-244	LADC-NN-114	Add-36
LADC-NN-90	59-221	LADC-NN-115	Add-33
LADC-NN-91	59-197	LADC-NN-116	Add-35
LADC-NN-92	62-279	LADC-NN-117	Add-79
LADC-NN-93	62-4	LADC-NN-118	Add-75
LADC-NN-94	57-164	LADC-NN-119	Add-30
LADC-NN-95	61-87	LADC-NN-120	Add-29
LADC-NN-96	57-20A	LADC-NN-121	Add-64
LADC-NN-97	60-55A	LADC-NN-122	Add-41
LADC-NN-98	58-24A	LADC-NN-123	Add-108
LADC-NN-99	58-203	LADC-NN-124	Add-107
LADC-NN-100	59-94	LADC-NN-125	Add-6
LADC-NN-101	62-37	LADC-NN-126	Add-77
LADC-NN-102	57-14		

<u>LADC-NN</u> (Cont 'd.)		<u>LADC-NN</u> (Cont 'd.)	
LADC-NN-127	Add-56	LADC-NN-150	Add-3
LADC-NN-128	Add-73	LADC-NN-151	Add-89
LADC-NN-129	Add-19	LADC-NN-152	Add-87
LADC-NN-130	Add-93	LADC-NN-153	Add-74
LADC-NN-131	Add-61	LADC-NN-154	Add-14
LADC-NN-132	Add-17	LADC-NN-155	Add-125
LADC-NN-133	Add-101	LADC-NN-156	Add-88
LADC-NN-134	Add-8	LADC-NN-157	Add-62
LADC-NN-135	Add-22	LADC-NN-158	Add-120
LADC-NN-136	Add-23	LADC-NN-159	Add-40
LADC-NN-137	Add-59	LADC-NN-160	Add-51
LADC-NN-138	Add-131	LADC-NN-161	Add-50
LADC-NN-139	Add-60	LADC-NN-162	Add-18
LADC-NN-140	Add-112	LADC-NN-163	Add-37
LADC-NN-141	Add-100	LADC-NN-164	Add-32
LADC-NN-142	Add-129	LADC-NN-165	Add-24
LADC-NN-143	Add-91	LADC-NN-166	Add-99
LADC-NN-144	Add-90	LADC-NN-167	Add-81
LADC-NN-145	Add-38	LADC-NN-168	Add-55
LADC-NN-146	Add-124	LADC-NN-169	Add-12
LADC-NN-147	Add-115	LADC-NN-170	Add-123
LADC-NN-148	Add-126	LADC-NN-171	Add-2
LADC-NN-149	Add-127	LADC-NN-172	Add-71

<u>LADC-NN</u> (Cont'd.)		<u>LADC-NN</u> (Cont'd.)	
LADC-NN-173	Add-113	LADC-NN-203	Add-49
LADC-NN-174	Add-92	LADC-NN-204	Add-52
LADC-NN-175	Add-72	LADC-NN-205	Add-69
LADC-NN-176	Add-118	LADC-NN-206	Add-66
LADC-NN-177	Add-54	LADC-NN-207	Add-67
LADC-NN-178	Add-114	LADC-NN-208	Add-68
LADC-NN-179	Add-128	LADC-NN-209	Add-82
LADC-NN-180	Add-20	LADC-NN-210	Add-83
LADC-NN-181	Add-103	LADC-NN-211	Add-96
LADC-NN-182	Add-116	LADC-NN-212	Add-97
LADC-NN-183	Add-106	LADC-NN-213	Add-95
LADC-NN-184	Add-42	LADC-NN-214	Add-109
LADC-NN-185	Add-84	LADC-NN-215	Add-119
LADC-NN-187	Add-63	LADC-NN-216	Add-121
LADC-NN-189	Add-53	LADC-NN-217	Add-11 Add-94
LADC-NN-192	Add-105	LADC-NN-218	Add-44
LADC-NN-196	62-121	LADC-NN-220	58-32
LADC-NN-197	62-216	LADC-NN-221	60-40
LADC-NN-198	Add-5		
LADC-NN-199	Add-10		
LADC-NN-200	Add-9		
LADC-NN-201	Add-26		
LADC-NN-202	Add-43		
		<u>LADC-OR</u>	
		LADC-OR-358	59-17A

LADC-PUB

LADC-PUB-121	57-10A
LADC-PUB-127	61-157
LADC-PUB-151	61-68
LADC-PUB-158	58-156
LADC-PUB-162	58-196
LADC-PUB-165	61-35
LADC-PUB-166	58-158
LADC-PUB-170	58-228
LADC-PUB-171	58-224
LADC-PUB-175	59-184
LADC-PUB-217	59-142 59-53A
LADC-PUB-218	59-27
LADC-PUB-225	Add-111
LADC-PUB-240	60-165
LADC-PUB-246	60-231
LADC-PUB-250a	61-222
LADC-PUB-250b	61-223
LADC-PUB-263	61-57
LADC-PUB-270	61-53
LADC-PUB-278	61-267
LADC-PUB-281	62-281

## APPENDIX

### Tabulation of Papers by Type of Publication

#### A. Journal Articles - 1653 articles in 211 journals

Acta Crystallographica - 28  
Acta Metallurgica - 1  
Advances in Biological and Medical Physics - 1  
Advances in Cryogenic Engineering - 6  
Aerospace Engineering - 2  
Aerospace Medicine - 1  
AIChE Journal - 1  
Air University, Quarterly Review - 1  
American Association for Cancer Research, Proceedings - 3  
American Ceramic Society, Bulletin - 5  
American Ceramic Society, Journal - 1  
American Chemical Society, Abstracts of Papers - 62  
American Chemical Society, Journal - 27  
American Electroplaters' Society, Technical Proceedings of  
the Annual Meeting - 3  
American Geophysical Union, Transactions - 1  
American Industrial Hygiene Association, Journal - 14  
American Institute of Mining, Metallurgical, and  
Petroleum Engineers, Transactions - 5  
American Journal of Medicine - 1  
American Journal of Physics - 3  
American Journal of Physiology - 2  
American Journal of Roentgenology and Radium Therapy  
and Nuclear Medicine - 2  
American Journal of Veterinary Research - 1  
American Mathematical Monthly - 5  
American Mathematical Society, Bulletin - 1  
American Mathematical Society, Notices - 1  
American Mathematical Society, Proceedings - 7  
American Mathematical Society, Transactions - 2  
American Nuclear Society, Transactions - 37  
American Physical Society, Bulletin - 246  
American Review of Respiratory Diseases - 2

American Society for Metals. Transactions - 7  
American Society for Testing and Materials. Proceedings - 1  
American Veterinary Medical Association. Journal - 1  
American Water Works Association. Journal - 1  
Analytical Chemistry - 62  
Annals of Physics - 24  
Annual Review in Automatic Programming - 1  
Annual Review of Medicine - 1  
Annual Review of Nuclear Science - 2  
Annual Review of Pharmacology - 1  
Annual Review of Physical Chemistry - 1  
Applied Mechanics Reviews - 1  
Applied Optics - 1  
Archives of Dermatology - 1  
Archives of Industrial Health - 3  
Archives of Pathology - 1  
Armed Forces Medical Journal - 2  
ARS Journal - 2  
Association for Computing Machinery. Communications - 4  
Association for Computing Machinery. Journal - 3  
Astronautica Acta - 1  
Astronautical Sciences Review - 1  
Astronautics - 3  
Astronautik - 1  
Astronomical Journal - 4  
Astrophysical Journal - 4  
Atomnaia Energiia - 1  
Atomnaia Energiia. (Eng. Trans.) - 1  
Biochemical Journal - 2  
Blood - 2  
British Journal of Radiology - 2  
Bulletin of the Atomic Scientists - 2  
Canadian Journal of Chemistry - 1  
Canadian Journal of Physics - 1  
Cancer Research - 3  
Ceramic Age - 1  
Chemical Reviews - 1  
Chess Review - 1  
Circulation - 1  
Combustion and Flame - 1  
Corrosion - 1  
Cryogenics - 2  
Crystal Front - 1  
Electrical Engineering - 2  
Electrochemical Society. Journal - 8  
Electronics - 1  
Experimental Mechanics - 2



Explosivstoffe, Zeitschrift fur das Spreng-, Schiess-,  
 Zund-, Brand- und Gasschutzwesen - 1  
 Federation Proceedings - 4  
 Fertility and Sterility - 1  
 Food Research - 1  
 Fortschritte der Medizin - 1  
 Franklin Institute. Journal - 1  
 Genetics - 1  
 Geochimica et Cosmochimica Acta - 1  
 Health Physics - 21  
 Helvetica Physica Acta - 5  
 Industrial and Engineering Chemistry - 7  
 Inorganic Chemistry - 4  
 Institute of Radio Engineers. Transactions on Bio-Medical  
 Electronics - 1  
 Institute of Radio Engineers. Transactions on Electronic  
 Computers - 1  
 Institute of Radio Engineers. Transactions on Nuclear  
 Science - 17  
 Instrumentation - 1  
 Instruments and Control Systems - 1  
 International Institute of Refrigeration. Bulletin - 3  
 International Journal of Applied Radiation and Isotopes - 3  
 ISA Journal - 1  
 Journal de Chimie Physique et de Physico Chimie Biologique - 1  
 Journal de Physique et le Radium - 2  
 Journal of Agricultural and Food Chemistry - 4  
 Journal of Animal Science - 2  
 Journal of Applied Physics - 41  
 Journal of Applied Physiology - 2  
 Journal of Biological Chemistry - 1  
 Journal of Cell Biology - 1  
 Journal of Cellular and Comparative Physiology - 1  
 Journal of Chemical and Engineering Data - 1  
 Journal of Chemical Education - 4  
 Journal of Chemical Physics - 81  
 Journal of Chromatography - 2  
 Journal of Clinical Endocrinology - 1  
 Journal of Dairy Science - 1  
 Journal of Fluid Mechanics - 1  
 Journal of Geophysical Research 5  
 Journal of Gerontology - 1  
 Journal of Inorganic and Nuclear Chemistry - 28  
 Journal of Laboratory and Clinical Medicine - 1  
 Journal of Mathematical Analysis and Applications - 2  
 Journal of Mathematics and Mechanics - 7

Journal of Metals - 2  
 Journal of Meteorology - 3  
 Journal of Molecular Spectroscopy - 12  
 Journal of Nuclear Energy - 4  
 Journal of Nuclear Materials - 6  
 Journal of Nuclear Medicine - 1  
 Journal of Nutrition - 1  
 Journal of Occupational Medicine - 2  
 Journal of Organic Chemistry - 24  
 Journal of Physical Chemistry - 52  
 Journal of Quantitative Spectroscopy and Radiative  
     Transfer - 1  
 Journal of the Aero/Space Sciences - 1  
 Journal of the Astronautical Sciences - 1  
 Journal of the Less-Common Metals - 4  
 Lubrication Engineering - 1  
 Materialprüfung - 1  
 Mathematics of Computation - 6  
 Metal Progress - 1  
 Metals Engineering Quarterly - 1  
 Michigan Mathematical Journal - 3  
 Michigan State Medical Society, Journal - 1  
 Microchemical Journal - 3  
 Missiles and Rockets - 1  
 National Academy of Sciences, Proceedings - 1  
 National Cancer Institute, Journal - 2  
 Nature - 9  
 New York Academy of Sciences, Annals - 1  
 Nondestructive Testing - 14  
 Nuclear Engineering - 1  
 Nuclear Fusion, Journal of Plasma Physics and Thermonuclear  
     Fusion - 1  
 Nuclear Instruments and Methods - 4  
 Nuclear News - 2  
 Nuclear Physics - 17  
 Nuclear Science and Engineering - 43  
 Nucleonics - 30  
 Nuovo Cimento - 8  
 Optical Society of America, Journal - 5  
 Ordnance - 1  
 Pacific Journal of Mathematics - 1  
 Photographic Science and Engineering - 1  
 Physica - 6  
 Physical Review - 188  
 Physical Review Letters - 36  
 Physics and Chemistry of Solids - 15

Physics Letters - 1  
 Physics of Fluids - 39  
 Physics Today - 5  
 Police - 1  
 Powder Metallurgy - 1  
 Product Research and Development - 1  
 Progress in Cardiovascular Diseases - 1  
 Progress in Elementary Particles and Cosmic Ray Physics - 1  
 Progress in Inorganic Chemistry - 1  
 Progress in Low Temperature Physics - 1  
 Progress in Nuclear Energy. Series I. Physics and  
 Mathematics - 1  
 Progress in Nuclear Energy. Series IV. Technology Engineering  
 and Safety - 2  
 Progress in Nuclear Energy. Series V. Metallurgy and Fuels - 2  
 Progress in Nuclear Energy. Series IX. Analytical  
 Chemistry - 2  
 Progress in Nuclear Energy. Series XI. Plasma Physics and  
 Thermonuclear Research - 6  
 Quarterly of Applied Mathematics - 6  
 Radiation Research - 30  
 Radiology - 2  
 RCL Counter - 1  
 Review of Scientific Instruments - 51  
 Reviews of Modern Physics - 3  
 Rocky Mountain Medical Journal - 1  
 Royal Society of London. Series A. Mathematical and Physical  
 Sciences - 3  
 Science - 15  
 Sewage and Industrial Wastes - 1  
 Sky and Telescope - 1  
 Societe Royale des Sciences de Liege. Memoirs - 1  
 Society for Experimental Biology and Medicine.  
 Proceedings - 4  
 Society for Experimental Stress Analysis. Proceedings - 1  
 Society for Industrial and Applied Mathematics. Journal - 1  
 Society for Industrial and Applied Mathematics. Review - 2  
 Society of Motion Picture and Television Engineers.  
 Journal - 2  
 Society of Technical Writers and Editors. Journal - 1  
 Soil Science - 1  
 Solid State Physics - 1  
 Special Libraries - 3  
 Spectrochimica Acta - 5  
 Stain Technology - 3  
 Swiss Academy of Medical Sciences. Bulletin - 1

Talanta - 7  
Tellus - 1  
Toxicology and Applied Pharmacology - 1  
Vacuum - 1  
Welding Engineer - 1  
Welding Journal - 3  
Zeitschrift fur Anorganische und Allgemeine Chemie - 1  
Zeitschrift fur Physik - 4  
Zeitschrift fur Wissenschaftliche Mikroskopie und  
Mikroskopische Technik - 2

- B. Books - 8
- C. Chapters of Books - 38
- D. Papers in Proceedings Published As Books - 232
- E. Papers in Proceedings Published As Reports - 95
- F. Papers in Congressional Hearings - 26
- G. Miscellaneous - 13