

Book Reviews

Photochimie et Reactions Moleculaires. By MAGDELEINE MOUSERON-CANET and JEAN-CLAUDE MANI, Ecole Nationale Superieure de Chimie de Montpellier. Dunod, Paris, France. 1969. xii + 244 pp. 38F.

This book is a brief introduction at a very basic level to the photochemistry of organic compounds with selected references to the leading literature, and three chapters on the photochemistry of some systems of biological interest. The book belongs to the "Foundations of Modern Organic Chemistry Series," and resembles the others in the series in style and format.

S. N. Ege, *University of Michigan*

The Chemistry of the Nitro and Nitroso Groups. Part 2. Edited by H. FEUER. John Wiley and Sons, Inc., New York, N. Y. 1970. xii + 447 pp. \$22.00.

This book completes the two-part series. It is concerned entirely with C-nitro compounds, except for a chapter on "Biochemistry and Pharmacology of the Nitro and Nitroso Groups." (See the December 1959 issue of this Journal for a review of Volume 1.)

A History of Dyed Textiles. By STUART ROBINSON. The MIT Press, Cambridge, Mass. 1970. 112 pp. \$10.00.

A History of Printed Textiles. By STUART ROBINSON. The MIT Press, Cambridge, Mass. 1970. 152 pp. \$10.00.

These two volumes touch only lightly on chemistry, but present a nice synthesis of technology and art. They are beautifully illustrated in color and in black and white.

Synthetic Methods of Organic Chemistry. Volumes 23 and 24. By W. THEILHEIMER. Albert J. Phiebig, Inc., White Plains, N. Y. 1970. xx + 603 pp. SFr. 264 (Vol. 23); xx + 524 pp. SFr. 250 (Vol. 24). \$63.35.

The appearance of a new volume in this annual series becomes more important as the rate of publication of new research accelerates, even though "Theilheimer" long ago reached the level of an essential reference work for the organic chemist engaged in synthesis. The editor and publishers include an ingenious variety of indexes to help the user cope with the mounting mass of material in the volumes, and Volume 24 introduces a new one: a "Formula Index of Functional Combinations." This is essentially an effort to overcome the nomenclature problem; who has not had difficulty locating a type of compound in an index (or even a price list) because his mind did not work the same way as the editor's in naming a particularly complicated functional group? For example, if one is interested in compounds of the type $RN=SOCl$, he may now arrange the essential elements of the function in alphabetical order, thus: HalNOS. In this new index, one finds under this heading the name "iminosulfonic acid chlorides," which can then be looked up in the conventional subject index. All the older types of index are retained, making nearly a quarter of the book index material.

BOOKS RECEIVED

General Textbooks

Numerical Aspects of Inorganic Chemistry. By R. B. HESLOP, The University of Manchester Institute of Science and Technology. American Elsevier Publishing Co., Inc., New York, N. Y. 1970. vii + 189 pp. \$4.25. A review textbook on calculations, for undergraduates.

Cours de Chimie. Volume 1. By J. AMIEL, Faculty of Sciences of Paris. Dunod, Paris, France. 1969. vii + 440 pp. 48 F.

The Chemistry of Matter. By JAMES B. PIERCE, Lowell Technological Institute. Houghton Mifflin Co., Boston, Mass. 1970. xi + 799 pp. \$10.50. A general chemistry textbook.

General Chemistry: Experiment and Theory. By RICHARD H. EASTMAN, Stanford University. Holt, Rinehart & Winston, Inc., New York, N. Y. 1969. xxii + 601 pp. \$12.95.

The Behavior of Matter: Laboratory Experiments in Introductory Chemistry. By SYDNEY S. BIECHLER, Lowell Technological Institute. Houghton Mifflin Co., Boston, Mass. 1970. ix +

267 pp. \$4.50. Accompanying Instructor's Manual. vii + 79 pp. \$1.65.

Experimental General Chemistry. By GEORGE G. HESS and UNO KASK, Wright State University and Towson State College. Barnes & Noble, Inc., New York, N. Y. 1970. xix + 262 pp. \$2.95.

Experiments in General, Organic and Biochemistry. By JOSEPH I. ROUTH and DARRELL P. EYMAN, University of Iowa. W. B. Saunders Co., Philadelphia, Pa. 1970. xii + 263 pp. \$4.50.

Fundamental Concepts of Chemistry. By DONALD I. HAMM, Southwestern State College. Appleton-Century-Crofts, Inc., New York, N. Y. 1969. x + 811 pp. \$9.95.

Principles of Chemistry, A Structural Approach. By GARTH L. LEE, Utah State University. International Textbook Co., Scranton, Pa. 1970. xiii + 713 pp. \$11.25.

Applied, Nonchemical, etc.

Control. By YASUNDO TAKAHASHI, MICHAEL J. RABINS, and DAVID M. AUSLANDER, University of California, New York University, University of California, Berkeley. Addison-Wesley Publishing Co., Reading, Mass. 1970. xiv + 800 pp. \$17.50.

Boundary Layers of Flow and Temperature. Edited by ALFRED WALZ. The MIT Press, Cambridge, Mass. 1969. ix + 297 pp. \$17.50.

Elements of Gasdynamics and the Classical Theory of Shock Waves. By YA. B. ZEL'DOVICH and YU. P. RAIZER, Academy of Sciences, U.S.S.R. Edited by WALLACE D. HAYES and RONALD F. PROBST, Princeton University and Massachusetts Institute of Technology. Academic Press Inc., New York, N. Y. 1969. viii + 115 pp. \$3.95.

Heat and Mass Transfer in Recirculating Flows. By A. D. GOSMAN, W. M. PUN, A. K. RUNCHAL, D. G. SPALDING, and M. WOLFSHTEIN, Imperial College of Science and Technology, London. Academic Press Inc., Ltd., London, England. 1969. xii + 338 pp. \$9.50.

Fungicides. Volume II. Edited by D. C. TORGESON, Boyce Thompson Institute. Academic Press Inc., New York, N. Y. 1969. xv + 742 pp. \$35.00.

Formulation and Function of Cosmetics. By J. STEPHAN JELLINEK. Translated from the German by G. L. FENTON. John Wiley & Sons, Inc., New York, N. Y. 1970. xix + 586 pp. \$27.50.

Gradwohl's Clinical Laboratory Methods and Diagnosis. Volumes I and II. Seventh Edition. By SAM FRANKEL, STANLEY REITMAN, and ALEX C. SONNENWIRTH. C. V. Mosby Co., St. Louis, Mo. 1970. xx + 1180 pp (Vol. I); xx + 1145 pp (Vol. II). \$59.50.

Treatise on Coatings. Volume 2. Characterization of Coatings: Physical Techniques. Part I. Edited by RAYMOND R. MYERS and J. S. LONG, Kent State University and University of Southern Mississippi. Marcel Dekker, Inc., New York, N. Y. 1969. xiii + 669 pp. \$39.75.

Quality Control in the Food Industry. Volume 2. Edited by S. M. HERSCHDOERFER, T. Wall & Sons (Ice Cream) Ltd. Academic Press Inc., Ltd., London, England. 1968. xv + 440 pp. \$17.50.

Solvent Extraction Research, Proceedings of the Fifth International Conference on Solvent Extraction Chemistry. Edited by A. S. KERTES and Y. MARCUS, The Hebrew University. John Wiley & Sons, Inc., New York, N. Y. 1969. xvi + 439 pp. \$29.50.

Aquatic Chemistry. An Introduction Emphasizing Chemical Equilibria in Natural Waters. By WERNER STUMM and JAMES J. MORGAN, Harvard University and California Institute of Technology. John Wiley & Sons, Inc., New York, N. Y. 1970. xv + 583 pp. \$24.95.

Catalytic Processes and Proven Catalysts. By CHARLES L. THOMAS, Tempe, Ariz. Academic Press Inc., New York, N. Y. 1970. xi + 284 pp. \$12.50.

Advances in Environmental Sciences and Technology. Volume I. Edited by JAMES N. PITTS, JR., and ROBERT L. METCALF, University of California and University of Illinois. John Wiley & Sons, Inc., New York, N. Y. 1969. 356 pp. \$15.95.

Residue Reviews. Volumes 27 and 28. Edited by FRANCIS A. GUNTHER, University of California, Riverside. Springer-Verlag New York, Inc., New York, N. Y. 1969. 143 pp (Vol. 27); 127 pp (Vol. 28).

- Cleaning Our Environment. The Chemical Basis for Action. A Report by the Subcommittee on Environmental Improvement, Committee on Chemistry and Public Affairs, American Chemical Society, 1969.** American Chemical Society, Washington, D. C. 1969. ix + 249 pp. \$2.75.
- Plastic Foams. Volumes I and II.** By CALVIN JAMES BENNING, International Paper Co. John Wiley & Sons, Inc., New York, N. Y. 1969. xii + 665 pp (Vol. I); xii + 363 pp (Vol. II). \$75.00 for the set.
- From Organic Chemistry to Macromolecules, A Scientific Autobiography Based on My Original Papers.** By HERMANN STAUDINGER. John Wiley & Sons, Inc., New York, N. Y. 1970. xvi + 303 pp. \$14.95.
- Thermal Stability of Polymers in Two Volumes. Volume 1. Monographs in Macromolecular Chemistry.** Edited by ROBERT T. CONLEY, Wright State University. Marcel Dekker, Inc., New York, N. Y. 1970. x + 644 pp. \$44.50.
- Reviews in Macromolecular Chemistry. Volume 5. Part 2.** Edited by GEORGE B. BUTLER, KENNETH O'DRISCOLL, and MITCHEL SHEN, University of Florida, University of Waterloo and University of California, Berkeley. Marcel Dekker, Inc., New York, N. Y. 1970. vi + 236 pp. \$17.50.
- Polymers in Space Research.** Edited by CHARLES L. SEGAL, MITCHEL SHEN, and FRANK N. KELLEY, Whittaker Corp., University of California, Berkeley, and Air Force Rocket Propulsion Laboratory, Edwards, Calif. Marcel Dekker, Inc., New York, N. Y. 1970. xvii + 462 pp. \$24.50.
- Active Carbon. Manufacture, Properties and Applications.** By M. SMISEK and S. CERNY, Czechoslovak Academy of Sciences. American Elsevier Publishing Co., Inc., New York, N. Y. 1970. xii + 479 pp. \$30.00. A comprehensive treatise with extensive bibliography.
- Phosphoric Acid, Phosphates and Phosphatic Fertilizers.** By WM. H. WAGGAMAN, Bureau of Mines, U. S. Department of Interior. Hafner Publishing Co., New York, N. Y. 1969. vii + 683 pp. \$31.50.
- Kinetic Processes in Gases and Plasmas.** Edited by A. R. HOCHSTIM, Institute for Defense Analysis. Academic Press Inc., New York, N. Y. 1969. xiv + 458 pp. \$22.50.
- The Use of Chemical Literature. Second Edition.** Edited by R. T. BOTTLE. Archon Books, Hamden, Conn. 1969. xii + 294 pp. \$10.00.
- Physics of Strength and Plasticity.** Edited by ALI S. ARGON. The MIT Press, Cambridge, Mass. 1969. xxv + 404 pp. \$12.50.
- Principles of X-Ray Metallurgy.** By T. KOVACS, Hatfield College of Technology. Plenum Press, New York, N. Y. 1969. 185 pp. \$9.50.
- An Introduction to Experimentation.** By ERNEST RABINOWICZ, Massachusetts Institute of Technology. Addison-Wesley Publishing Co., Reading, Mass. 1970. viii + 124 pp. \$3.25.
- Electrochemical Processes in Fuel Cells.** By MANFRED W. BREITER, General Electric Research and Development Center. Springer-Verlag, New York, N. Y. 1969. xi + 274 pp. \$12.00.
- Fuel Cells.** By WOLF VIELSTICH, University of Bonn. John Wiley and Sons, Inc., New York, N. Y. 1970. xxii + 501 pp. \$25.00.
- Chimie Industrielle. Volume II. Du Sel au Teflon.** By HENRI GUERIN, Faculte des Sciences d'Orsay. Presses Universitaires de France, Paris, France. 1969. 567 pp.
- Public Safety. A Growing Factor in Modern Design.** National Academy of Engineering, Fifth Annual Meeting. Printing and Publishing Office, National Academy of Sciences, Washington, D. C. 1970. vii + 115 pp. \$4.75.
- The Scattering of Light and Other Electromagnetic Radiation.** By MILTON KERKER, Clarkson College of Technology. Academic Press, Inc., New York, N. Y. 1969. xv + 666 pp. \$33.50.
- Thin-film Optical Filters.** By H. A. MACLEOD, Sir Howard Grubb, Parsons & Co., Ltd. American Elsevier Publishing Co., Inc., New York, N. Y. 1969. xi + 332 pp. \$22.00.
- Bulletin d'Information Scientifique de la Faculté des Sciences de Paris. Laboratoires de Recherche Chimie, 1968-1969.** Dunod, Paris, France. 1969. x + 146 pp.
- Bulletin d'Information Scientifique de la Faculté des Sciences de Paris. Laboratoires de Recherche Geologie-Biologie, 1968-1969.** Dunod, Paris, France. 1969. xiii + 268 pp.
- Bulletin d'Information Scientifique de la Faculté des Sciences de Paris. Laboratoires de Recherche Mathématiques Appliquées Physique, 1968-1969.** Dunod, Paris, France. xii + 208 pp. 27 F.
- Mathematiques. 1. Elements d'algebre.** By L. CHAMBADAL, Ancien eleve de l'Ecole Normale Superieure Agréee de l'Université. Dunod, Paris, France. xvi + 236 pp. 1969. 23 F.
- Ministry of Technology. Report of the Government Chemist, 1968.** Sales Section, British Information Services, New York, N. Y. 1969. vii + 191 pp. \$3.50.
- Essays in Chemistry. Volume I.** Edited by J. N. BRADLEY, R. D. GILLARD, and R. F. HUDSON, University of Essex, and University of Kent at Canterbury. Academic Press Inc., Ltd., London, England. 1970. x + 115 pp. \$3.25.
- Potassium-Argon Dating, Principles, Techniques and Applications to Geochronology.** By G. BRENT DALRYMPLE and MARVIN A. LANPHERE, U. S. Geological Survey. W. H. Freeman & Co., San Francisco, Calif. 1969. xiv + 258 pp. \$7.50.
- Hackh's Chemical Dictionary (American and British Usage). Fourth Edition.** Edited by JULIUS GRANT. McGraw-Hill Book Co., Inc., New York, N. Y. 1969. xi + 738 pp. \$29.50.
- Mass Transfer in Heterogeneous Catalysis.** By CHARLES N. SATTERFIELD. The MIT Press, Cambridge, Mass. 1970. xvi + 267 pp. \$14.25.
- Chemical Engineering Kinetics. Second Edition.** By J. M. SMITH, University of California at Davis. McGraw-Hill Book Co., Inc., New York, N. Y. 1970. xviii + 612 pp. \$15.50. A textbook with problems.
- The Chemistry and Uses of Fire Retardants.** By JOHN W. LYONS, Monsanto Co. John Wiley & Sons, Inc., New York, N. Y. 1970. xiv + 462 pp. \$22.50.
- Computer Logic. A Laboratory Workbook.** By H. V. MALMSTADT and C. G. ENKE, University of Illinois and Michigan State University. W. A. Benjamin, Inc., New York, N. Y. 1970. viii + 167 pp. \$4.95.
- Science and Technology in the World of the Future.** Edited by ARTHUR B. BRONWELL, University of Connecticut. John Wiley & Sons, Inc., New York, N. Y. 1970. xxi + 394 pp. \$11.95.
- Dictionary of Fuel Technology.** By ALAN GILPIN. Philosophical Library Inc., New York, N. Y. 1969. xii + 275 pp. \$20.00.
- Basic Color Terms: Their Universality and Evolution.** By BRENT BERLIN and PAUL KAY. University of California Press, Berkeley, Calif. 1970. xi + 178 pp. \$8.50.
- Fluid Mechanics.** By NOEL DE NEVERS, University of Utah. Addison-Wesley Publishing Co., Inc., Reading, Mass. 1970. xiv + 514 pp. \$16.50. A textbook.
- Advances in Chemical Engineering. Volume 8.** Edited by THOMAS B. DREW, GILES R. COKELET, JOHN W. HOOPES, JR., and THEODORE VERMEULEN, Massachusetts Institute of Technology, Montana State University, Atlas Chemical Industries, Inc., and University of California at Berkeley. Academic Press Inc., New York, N. Y. 1970. xii + 386 pp. \$18.50.
- A First Course in Computing and Numerical Methods.** By JOHN A. JACQUEZ, University of Michigan. Addison-Wesley Publishing Co., Reading, Mass. 1970. xvi + 365 pp. \$11.50. A textbook for students in various sciences, requiring only a limited mathematical background.
- The Engineering Uses of Holography. Proceedings of a Conference held at the University of Strathclyde, September 1968.** Edited by E. R. ROBERTSON and J. M. HARVEY. Cambridge University Press, New York, N. Y. 1970. xxx + 589 pp. \$39.50.
- Proceedings of the 1970 Heat Transfer and Fluid Mechanics Institute Held at the Naval Postgraduate School, Monterey, California, June 10-12, 1970.** Edited by TURGUT SARPKAYA. Stanford University Press, Stanford, Calif. 1970. x + 370 pp. \$15.00.
- Steam Tables. Thermodynamic Properties of Water Including Vapor, Liquid, and Solid Phases.** By JOSEPH H. KEENAN, FREDERICK G. KEYES, PHILIP G. HILL, and JOAN G. MOORE, MIT, MIT, Queen's University, MIT. John Wiley & Sons, Inc., New York, N. Y. 1969. xii + 162 pp. \$9.95.
- Thesaurus of Textile Terms Covering Fibrous Materials and Processes.** Edited by STANLEY BACKER and EMERY I. VALKO. The MIT Press, Cambridge, Mass. 1969. xv + 448 pp. \$25.00.
- Organic Chemistry**
- Methods in Free-radical Chemistry. Volume 2.** Edited by EARL S. HUYSER, University of Kansas. Marcel Dekker, Inc., New York, N. Y. 1969. ix + 242 pp.
- Carbonium Ions. Volume II. Methods of Formation and Major Types.** Edited by GEORGE A. OLAH and PAUL VON R. SCHLEYER, Case Western Reserve University and Princeton University. John Wiley & Sons, Inc., New York, N. Y. 1970. x + 500 pp.
- Organic Syntheses. Volume 50.** Edited by R. RESLOW. John Wiley & Sons, Inc., New York, N. Y. 1970. xv + 115 pp.

- plus 20 unnumbered. \$7.95. This volume introduces a new policy under which preparations recently received but not yet checked are listed, with directions for ordering preprints of the unchecked procedures.
- Characterization of Organic Compounds by Chemical Methods. An Introductory Laboratory Textbook.** By TERENCE C. OWEN, University of South Florida. Marcel Dekker, Inc., New York, N. Y. 1969. vii + 247 pp. \$6.75.
- The Chemistry of Functional Groups. The Chemistry of Alkenes. Volume 2.** Edited by JACOB ZABICKY, The Weizmann Institute of Science. John Wiley & Sons, Inc., New York, N. Y. 1970. xiv + 669 pp. \$31.00.
- The Chemistry of Functional Groups. The Chemistry of the Carbonyl Group. Volume 2.** Edited by JACOB ZABICKY, The Weizmann Institute of Science. John Wiley & Sons, Inc., New York, N. Y. 1970. xv + 428 pp. \$23.50.
- The Chemistry of Synthetic Dyes. Volume III.** Edited by K. VENKATARAMAN, National Chemical Laboratory, Poona, India. Academic Press Inc., New York, N. Y. 1970. xix + 485 pp. \$27.50.
- Organic Electronic Spectral Data. Volume VI.** Edited by JOHN P. PHILLIPS, LEON D. FREEDMAN, AND J. CYMERMAN CRAIG, John Wiley & Sons, Inc., New York, N. Y. 1970. xv + 1324 pp. \$40.00.
- Metallocene Polymers. Volume 5. Part 1. Reviews in Macromolecular Chemistry.** Edited by EBERHARD W. NEUSE and HAROLD ROSENBERG, F. J. Weck Company Industry and Wright-Patterson Air Force Base. Marcel Dekker, Inc., New York, N. Y. 1970. iv + 162 pp. \$12.75.
- Carbon Monoxide in Organic Synthesis.** By JURGEN FALBE. Springer-Verlag New York, Inc., New York, N. Y. 1970. ix + 219 pp. \$16.00.
- Free-Radical Chain Reactions.** By EARL S. HUYSER, University of Kansas. John Wiley & Sons, Inc., New York, N. Y. 1970. vii + 387 pp. \$19.95.
- *Fortschritte der Chemie Organischer Naturstoffe. Volume XXVII.** Edited by L. ZECHMEISTER, California Institute of Technology. Springer-Verlag New York, Inc., New York, N. Y. 1969. viii + 412 pp.
- *Natural Products. A Laboratory Guide.** By RAPHAEL IKAN, Hebrew University. Academic Press Inc., Ltd., London, England. 1969. xvi + 295 pp. \$10.00.
- *The Chemistry of Organotin Compounds.** By R. C. POLLER, University of London. Academic Press Inc., New York, N. Y. 1970. vii + 315 pp. \$16.50.
- *The Organic Chemistry of Tin.** By WILHELM P. NEUMANN, University of Dortmund. John Wiley & Sons, Inc., New York, N. Y. 1970. xiii + 282 pp. \$15.50.
- *Chemistry of the Alkaloids.** Edited by S. W. PELLETIER, University of Georgia. Van Nostrand-Reinhold Co., New York, N. Y. 1970. xx + 795 pp. \$24.95.
- The Chemistry of the Isoquinoline Alkaloids.** By TETSUJI KAMETANI, Tohoku University. American Elsevier Publishing Co., New York, N. Y. 1969. 266 pp. \$21.00.
- Reviews in Macromolecular Chemistry. Volume 4.** Edited by GEORGE B. BUTLER and KENNETH F. O'DRISCOLL, University of Florida and State University of New York. Marcel Dekker, Inc., New York, N. Y. 1970. viii + 419 pp. \$17.50.
- Vinyl Polymerization. Volume 1. Part II.** Edited by GEORGE E. HAM, Geigy Chemical Corp. Marcel Dekker, Inc., New York, N. Y. 1969. xiii + 416 pp. \$22.50.
- Structure and Mechanism in Vinyl Polymerization.** Edited by TEIJI TSURUTA and KENNETH F. O'DRISCOLL, University of Tokyo and State University of New York. Marcel Dekker, Inc., New York, N. Y. 1969. xii + 540 pp. \$29.50.
- Polymer Chemistry of Synthetic Elastomers. Volume 23. Part 2.** Edited by JOSEPH P. KENNEDY and ERIK TORNQVIST, Esso Research. John Wiley & Sons, Inc., New York, N. Y. 1969. xiv + 553 pp. \$27.50.
- Ring-Opening Polymerization. Volume 2.** Edited by KURT C. FRISCH and SIDNEY L. REEGER, University of Detroit. Marcel Dekker, Inc., New York, N. Y. 1969. xii + 528 pp.
- Kinetics and Mechanism of Polyreactions. Preprints. Volume V. IUPAC International Symposium on Macromolecular Chemistry.** Akademiai Kiado, Budapest. 1969. 497 pp.
- Kinetics and Mechanism of Polyreactions. Preprints. Volume IV. IUPAC International Symposium on Macromolecular Chemistry.** Akademiai Nyomda, Budapest. 1969. 373 pp.
- Kinetics and Mechanism of Polyreactions. Preprints. Volume III. IUPAC International Symposium on Macromolecular Chemistry.** Akademiai Kiado, Budapest. 1969. 445 pp.
- Kinetics and Mechanism of Polyreactions. Preprints. Volume II. IUPAC International Symposium on Macromolecular Chemistry.** Akademiai Kiado, Budapest. 1969. 425 pp.
- Syntheses and Reactions in Organic Chemistry.** By WILLIAM E. PARHAM, University of Minnesota. John Wiley & Sons, Inc., New York, N. Y. 1970. ix + 547 pp. \$9.95. A textbook for graduate students and advanced undergraduates.
- Leitfaden der Farbstoffchemie.** By P. RYS-H. ZOLLINGER. Verlag Chemie, GmbH, Weinheim/Bergstr., Germany. 1970. vii + 220 pp. A volume in the "Chemische Taschenbücher" series; introductory, with selected references.
- Introduction to Physical Organic Chemistry.** By RICHARD D. GILLIOM, Southwestern at Memphis. Addison-Wesley Publishing Co., Reading, Mass. 1970. vii + 341 pp. \$13.50. A textbook for advanced undergraduates.
- Introduccion a la Resonancia Magnetica Nuclear.** By PEDRO JOSEPH-NATHAN and EDUARDO DIAZ T., Instituto Politecnico Nacional and Universidad Nacional Autonoma de Mexico. Editorial Limusa-Wiley, S. A., Mexico. 1970. 190 pp. \$4.00. An introductory textbook.
- Traité de Chimie Organique. Maitrise de Chimie. Volume 2.** By CH. PREVOST, Faculté des Sciences de Paris. Dunod, Paris, France. 1970. xxi + 388 pp. 49 F. A review of organic reactions for students, without references.
- An Introductory Course in Practical Organic Chemistry.** By F. D. GUNSTONE, D. M. SMITH, and J. T. SHARP, University of St. Andrews, and University of Edinburgh. Methuen and Co., Ltd., London, England. 1970. xv + 174 pp. \$5.50. A laboratory manual.
- Introduction to Organic and Biological Chemistry.** By STUART J. BAUM, State University of New York. The Macmillan Co., New York, N. Y. 1970. xvii + 471 pp. \$9.95.
- Introduction to Organic Chemistry.** By D. B. BIGLEY and R. J. E. TALBOT, University of Kent at Canterbury. American Elsevier Publishing Co., New York, N. Y. 1969. x + 400 pp. \$7.50.
- High Polymers. Volume 23. Part 2. Polymer Chemistry of Synthetic Elastomers.** Edited by J. P. KENNEDY and E. TORNQVIST. John Wiley & Sons, Inc., New York, N. Y. 1969. \$27.50.
- Elementary Organic Chemistry. A Brief Course.** By HARRIS O. VAN ORDEN and GARTH L. LEE, Utah State University. W. B. Saunders Co., Philadelphia, Pa. 1969. ix + 329 pp. \$8.25.
- Organic Chemistry: An Experimental Approach.** By JAMES S. SWINEHART, Perkin-Elmer Corp. Appleton-Century-Crofts, Inc., New York, N. Y. 1969. xiv + 599 pp.

Biological and Pharmaceutical Chemistry

- Synthesis of Penicillin, Cephalosporin C and Analogs.** By MAGHAR S. MANHAS and AJAY K. BOSE, Stevens Institute of Technology. Marcel Dekker, Inc., New York, N. Y. 1969. xii + 118 pp. \$8.75.
- Recent Advances in Phytochemistry. Volume 2. Proceedings of the Seventh Annual Symposium of the Phytochemical Society of North America.** Edited by MARGARET K. SEIKEL and V. C. RONECKLES, U. S. Department of Agriculture and Imperial Tobacco Co. of Canada Ltd. Appleton-Century-Crofts, Inc., New York, N. Y. 1969. 175 pp.
- Topics in Lipid Chemistry. Volume 1.** Edited by F. D. GUNSTONE, University of St. Andrews. John Wiley & Sons, Inc., New York, N. Y. 1970. ix + 451 pp. \$22.00.
- Chemistry of Sphingolipids.** By D. SHAPIRO, Weizmann Institute of Science. Hermann, Paris, France. 1969. 111 pp. 30 F.
- The Carbohydrates. Chemistry/Biochemistry. Volume IIA. Second Edition.** Edited by WARD PIGMAN and DEREK HORTON, New York Medical College and The Ohio State University. Academic Press Inc., New York, N. Y. 1970. xviii + 521 pp. \$26.50.
- The Carbohydrates. Chemistry/Biochemistry. Volume IIB. Second Edition.** Edited by WARD PITMAN and DEREK HORTON, New York Medical College and the Ohio State University. Academic Press Inc., New York, N. Y. 1970. xvi + 431 pp. \$22.00.
- The Biochemistry of Folic Acid and Related Pteridines.** By R. L. BLAKLEY, Australian National University. John Wiley & Sons, Inc., New York, N. Y. 1969. xxi + 569 pp.
- The Biochemistry of Alkaloids (Molecular Biology. Volume 3).** By TREVOR ROBINSON. Springer-Verlag New York, Inc., New York, N. Y. 1968. x + 149 pp. \$9.75.

* This book will be reviewed at a later date.

- Natural Substances Formed Biologically from Mevalonic Acid.** *Biochemical Society Symposium No. 29.* Edited by T. W. GOODWIN. Academic Press Inc., New York, N. Y. 1970. ix + 186 pp. \$8.00.
- The Chemistry and Biochemistry of Steroids.** By LELAND J. CHINN, PAUL D. KLIMSTRA, JOHN S. BARAN, and RAPHAEL PAPPO. Intra-Science Research Foundation, Santa Monica, Calif. Geron-X, Inc., Los Altos, Calif. 1969. iv + 166 pp. \$12.00.
- Biological and Biochemical Applications of Electron-Spin Resonance.** By D. J. E. INGRAM, University of Keele. Plenum Publishing Corp., New York, N. Y. 1969. viii + 311 pp. \$20.00.
- Gas Chromatography in Biology and Medicine.** A *Ciba Foundation Symposium.* Edited by R. PORTER. J. & A. Churchill Ltd., London, England. 1969. ix + 213 pp. 60 s. Includes the texts of 14 papers with references, plus the oral discussions.
- Biochemical Microcalorimetry.** Edited by HARRY DARROW BROWN, University of Missouri. Academic Press Inc., New York, N. Y. 1969. xii + 338 pp. \$16.00.
- Concepts and Models of Biomathematics. Biomathematics. Volume 1.** Edited by F. HEINMETS, U. S. Army Natick Laboratories. Marcel Dekker, Inc., New York, N. Y. 1969. xi + 287 pp. \$16.75.
- Automation, Mechanization and Data Handling in Microbiology.** Edited by ANN BAILLIE and R. J. GILBERT, Unilever Research Laboratory, and Central Public Health Laboratory, London. Academic Press Inc., Ltd., London, England. 1970. xiv + 233 pp. \$9.75.
- Atomic Absorption Spectroscopy: Applications in Agriculture, Biology and Medicine.** By GARY D. CHRISTIAN and FREDRIC J. FELDMAN, University of Kentucky and Beckman Instruments, Inc. Wiley-Interscience, New York, N. Y. 1970. xix + 490 pp. \$16.50.
- Spectral Data of Natural Products. Volume 1.** By K. YAMAGUCHI, Torii & Co., Ltd., Japan. American Elsevier Publishing Co., Inc., New York, N. Y. 1970. v + 765 pp. \$56.00.
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