

because of their special interests, this text should do much to stimulate activity by chemists.

DEPARTMENT OF CHEMISTRY
NEW YORK UNIVERSITY
NEW YORK 3, NEW YORK

JOHN E. VANCE

Fundamental Problems in Statistical Mechanics. Proceedings of the NUFFIC International Summary Course in Science at Nijenrode Castle, The Netherlands, August, 1961. Compiled by E. G. D. COHEN, Institute for Theoretical Physics, University of Amsterdam. Interscience Division, John Wiley and Sons, Inc., 440 Park Avenue South, New York 16, N. Y. 1962. xii + 249 pp. 15.5 × 23 cm. Price, \$7.50.

This book consists of lectures on topics of current interest in statistical mechanics given by experts to an assemblage of graduate students and young research workers. For the most part the lectures are clear and well organized, so that they should be followed easily by a student who has had decent courses in quantum mechanics and statistical mechanics.

The fundamental problems referred to in the title are mainly those of explaining the irreversible behavior of matter. There are also two chapters on liquid helium and on the Fermi gas. The various lecturers are B. R. A. Nijboer, H. Wergeland, K. Huang, N. M. Hugenholtz, E. G. D. Cohen, L. Van Hove, N. G. Van Kampen, P. Mazur and E. W. Montroll.

NATIONAL BUREAU OF STANDARDS
WASHINGTON 25, D. C.

ROBERT W. ZWANZIG

BOOKS RECEIVED

October 10, 1962–November 10, 1962

- ADRIEN ALBERT AND E. P. SERJEANT. "Ionization Constants of Acids and Bases. A Laboratory Manual." John Wiley and Sons, Inc., 440 Park Avenue South, New York, 16, N. Y. 1962. 179 pp. \$3.75.
- JEAN ASSELINEAU. "Les Lipides Bactériens. Isolement, Composition, Propriétés." *Actualités Scientifiques et Industrielles*. 1297. Editions Hermann, 115 Boulevard Saint-Germain, Paris VI, France. 1962. 350 pp. 36 NF.
- ERNEST BALDWIN. "The Nature of Biochemistry." Cambridge University Press, 32 East 57th Street, New York 22, N. Y. 1962. 111 pp. Cloth, \$2.75; paper, \$1.45.
- CARL J. BALLHAUSEN. "Introduction to Ligand Field Theory." McGraw-Hill Book Company, Inc., 330 West 42nd Street, New York 36, N. Y. 1962. 298 pp. \$11.75.
- JÍŘÍ BAREŠ, ČESTMÍR CERNÝ, VOJTĚCH FRIED, AND JÍŘÍ PICK. Translated by HELENA WATNEY. "Collection of Problems in Physical Chemistry." Addison-Wesley Publishing Company, Inc., Reading, Massachusetts. 1962. 608 pp. \$9.75.
- PAUL D. BOYER, HENRY LARDY, AND KARL MYRBÄCK. Edited by. "The Enzymes." Second Edition-Completely Revised. Volume 6. "Group Transfer. Syntheses Coupled to ATP Cleavage." Academic Press Inc., 111 Fifth Avenue, New York 3, N. Y. 1962. 684 pp. \$20.00.
- M. FRANÇON. "Progress in Microscopy." Harper and Row, Inc., 49 East 33rd Street, New York 16, N. Y. 1961. 295 pp. \$9.00.
- ROBERT F. GOULD, Editor. "Advances in Chemistry Series." Number 36. "Free Radicals in Inorganic Chemistry. Papers presented at the Symposium on Inorganic Free Radicals and Free Radicals in Inorganic Chemistry, Division of Inorganic Chemistry, 142nd Meeting of the American Chemical Society, Atlantic City, N. J., September 10–12, 1962." American Chemical Society, 1155 Sixteenth Street, N. W., Washington 6, D. C. 1962. 175 pp. \$7.00.
- PROFESSEUR M. HAÏSSINSKY. With M. P. FAUGERAS, MLE. C. FERRADINI, M. H. FRANÇOIS, MLE. M. HEUBERGER, MME. M. PAGÉS, M. R. PASCARD, AND MME. C. PÉRÉBASKINE-COURTEVILLE. Published under the direction of PAUL PASCAL. "Nouveau Traité de Chimie Minérale." Tome XV. "Uranium et Transuraniens." Troisième Fascicule. "Transuraniens." Masson et Cie., 120, Boulevard Saint-Germain, Paris VI, France. 1962. 1090 pp. Broché, 180 NF.; cartonné toile, 192 NF.
- B. W. V. HAWES AND N. H. DAVIES. "Calculations in Physical Chemistry." John Wiley and Sons, Inc., 440 Park Avenue South, New York 16, N. Y. 1962. 203 pp. \$4.50.
- ROLFE H. HERBER, Editor. "Inorganic Isotopic Syntheses." W. F. Benjamin, Inc., 2465 Broadway, New York 25, N. Y. 1962. 249 pp. \$7.50.
- JOHN R. HOLUM. "Elements of General and Biological Chemistry. An Introduction to the Molecular Basis of Life." John Wiley and Sons, Inc., 440 Park Avenue South, New York 16, N. Y. 1962. 470 pp. \$5.95.
- H. H. JAFFÉ AND MILTON ORCHIN. "Theory and Applications of Ultraviolet Spectroscopy." John Wiley and Sons, Inc., 440 Park Avenue South, New York 16, N. Y. 1962. 624 pp. \$15.00.
- M. JAVILLIER, M. POLONOVSKI, M. FLOREIN, P. BOULANGER, M. LEMOIGNE, J. ROCHE, AND R. WURMSER. "Traité de Biochimie Générale." Tome II. "Les Agents des Synthèses et des Dégradations Biochimiques." Premier Fascicule. "Vitamines, Oligoéléments, Hormones." Masson et Cie, 120 Boulevard Saint-Germain, Paris VI, France. 1962. 700 pp. Broché, 140 NF.; cartonné toile, 155 NF.
- DOTT. LUCIANO JELICCI, DOTT. LUCIANA GRIGGIO, AND DOTT. ELENA FORNASARI. "Bibliografia Polarografica (1959)." Parte II. "Indice per Soggetti." Supplemento N. 12A. Centro di Polarografia del Consiglio Nazionale delle Ricerche, Via L. Loredan, 4, Padova, Italy. 1961. 75 pp. \$2.00.
- CHR. KLIXBÜLL JØRGENSEN. "Orbitals in Atoms and Molecules." Academic Press Inc., (London) Ltd., Berkeley Square House, Berkeley Square, London, W. 1, England. 1962. 162 pp. \$6.00.
- CHARLES KITTEL. "Elementary Solid State Physics: A Short Course." John Wiley and Sons, Inc., 440 Park Avenue South, New York 16, N. Y. 1962. 339 pp. \$8.75.
- VENIAMIN G. LEVICH. "Physicochemical Hydrodynamics." Translated by Scripta Technica, Inc. Prentice-Hall, Inc., Englewood Cliffs, New Jersey. 1962. 700 pp. \$20.00.
- A. B. LITTLEWOOD. "Gas Chromatography. Principles' Techniques and Applications." Academic Press Inc.' 111 Fifth Avenue, New York 3, N. Y. 1962. 514 pp. \$15.00.
- H. V. MALMSTADT AND C. G. ENKE. With the assistance of E. C. TOREN, JR. "Electronics for Scientists, Principles and Experiments for those who Use Instruments." W. A. Benjamin, Inc., 2465 Broadway, New York 25, N. Y. 1962. 619 pp. \$10.75.
- WALTER J. MOORE. "Physical Chemistry." Third Edition. Prentice-Hall, Inc., Englewood Cliffs, New Jersey. 1962. 844 pp. \$13.00.
- R. J. MOSELEY, R. A. AMOS, AND J. R. SCOTT. "Physico-Mechanical Testing of Unvulcanised and Vulcanised Rubber." Translated from Trudy Nauchno-Issledovatel'skogo Instituta Shinnoi Promyshlennosti (Transactions of the Tyre Research Institute), Sbornik 7, Moscow, 1960. Maclaren and Sons, Ltd., Maclaren House, 131 Great Suffolk Street, London, S.E. 1, England. 1962. 152 pp. 45/-.