

Cryogenics Bibliography

A comprehensive bibliography of papers and reports on low temperature physics research published between 1945 and the early part of 1952 is available free of charge from C. L. Jewett, Mechanical Division, Arthur D. Little, Inc., 30 Memorial Drive, Cambridge 42, Massachusetts. Both theoretical and experimental work is covered, and brief abstracts accompany each listing. Supplements will be issued at regular intervals, the first one already having been prepared, and will be included with the original bibliography.

Conformal Maps

Construction and Applications of Conformal Maps is the title of a collection of papers on this subject presented at a symposium held in the summer of 1949 at the Bureau of Standards Institute for Numerical Analysis, Los Angeles. The practical construction of conformal maps, including such techniques as network and relaxation methods and the use of electrolytic tanks, is presented, and industrial applications and applications to electric and magnetic fields, elasticity, fluid dynamics, and so on, receive detailed treatment. The 280-page volume is Series 18 of the Bureau of Standards Applied Mathematics Series, and is obtainable for \$2.25 from the Government Printing Office, Washington 25, D. C.

Nuclear Data

New Nuclear Data, a continuation of *Nuclear Data* (NBS Circular 499) and its three supplements, is available as a special issue of *Nuclear Science Abstracts* (Vol. 6, No. 24B, 1952) for 25 cents from the Government Printing Office, Washington 25, D. C. *New Nuclear Data*, as its name implies, is devoted to listings of the most recent experimental values of such nuclear characteristics as half-lives, radiation energies, relative abundances, nuclear moments, and neutron cross sections as compiled by the Nuclear Data Group of the National Bureau of Standards. Complete references are given to the original source material. The NBS lists appear regularly in *Nuclear Science Abstracts* and are cumulated there at three-month intervals, in addition to the special issue containing a compendium for the entire year.

Permissible Radioisotope Concentrations

Maximum Permissible Amounts of Radioisotopes in the Human Body and Maximum Permissible Concentrations in Air and Water, the title of the National Bureau of Standards Handbook 52, is an accurate description of its contents. The first official report of the Subcommittee on Permissible Internal Dose of the National Committee on Radiation Protection, this concise 45-page booklet includes, in addition to pertinent tables for seventy radioisotopes in present use, details of the methods employed in estimating maximum permissible concentrations, factors determining radioisotope hazards, and recommendations for avoiding or minimizing these hazards. It is obtainable for twenty cents from the Government Printing Office, Washington 25, D. C.

Books Received

HYDRAZINE. By Charles C. Clark. 133 pp. Mathieson Chemical Corporation, Baltimore, Maryland, 1953. Gratis.

SYNCHROS SELF-SYNCHRONOUS DEVICES AND ELECTRICAL SERVO-MECHANISMS. By Leonard R. Crow. 222 pp. The Scientific Book Publishing Co., Vincennes, Indiana, 1953. \$4.20.

SMALL PARTICLE STATISTICS. By G. Herdan and M. L. Smith. 520 pp. Elsevier Publishing Company, New York, 1953. \$12.00.

ESSENTIALS IN PROBLEM SOLVING. By Zuce Kogan. 78 pp. Published by Z. Kogan, 724 Sheridan Road, Chicago, Illinois, 1951.

AN INTRODUCTION TO THERMODYNAMICS, THE KINETIC THEORY OF GASES, AND STATISTICAL MECHANICS (Second Edition). By Francis Weston Sears. 374 pp. Addison-Wesley Publishing Company, Inc., Cambridge, Massachusetts, 1953. \$7.50.

PILE NEUTRON RESEARCH. By D. J. Hughes. 386 pp. Addison-Wesley Publishing Company, Inc., Cambridge, Massachusetts, 1953. \$8.50.

METHODEN UND ANWENDUNGEN DER MASSENSPEKTROSKOPIE. By Heinz Ewald and Heinrich Hintenberger. 288 pp. Verlag Chemie, GmbH, Weinheim, Germany, 1953. DM 25.60.

THE SCIENTIFIC ADVENTURE. Essays in the History and Philosophy of Science. By Herbert Dingle. 372 pp. Philosophical Library, New York, 1953. \$6.00.

PROGRESS IN NUCLEAR PHYSICS. Vol. 2. Edited by O. R. Frisch. 295 pp. Pergamon Press Ltd., London, England; Academic Press Inc., New York, 1953. \$9.25.

ELECTRIC CONTROL SYSTEMS (Third Edition). By Richard W. Jones. 511 pp. John Wiley and Sons, Inc., New York, 1953. \$7.50.

OXIDATION OF METALS AND ALLOYS. By O. Kubaschewski and B. E. Hopkins. 239 pp. Butterworths Scientific Publications, London, England; Academic Press Inc., New York, 1953. \$6.00.

ROCKET PROPULSION. By Eric Burgess. 235 pp. Chapman and Hall Ltd., London, England; The Macmillan Company, New York, 1953. \$4.50.

INTRODUCTION TO THE THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. By Wolfgang J. Thron. 230 pp. John Wiley and Sons, Inc., New York, 1953. \$6.50.

ELECTRIC CIRCUIT THEORY AND OPERATIONAL CALCULUS. By John R. Carson. 197 pp. Chelsea Publishing Company, New York, 1953. \$3.95.

THE SCIENCE OF COLOR. Prepared by Committee on Colorimetry, Optical Society of America, Chairman L. A. Jones. 385 pp. Thomas Y. Crowell Company, New York, 1953. \$7.00.

MODERNE MESSMETHODEN DER PHYSIK. Part I, Mechanik-Akustik. By Franz X. Eder. 340 pp. Deutscher Verlag der Wissenschaften, Berlin, Germany, 1952. DM 13.30.

STOCHASTIC PROCESSES. By J. L. Doob. 654 pp. John Wiley and Sons, Inc., New York, 1953. \$10.00.

RADIO-FREQUENCY POWER MEASUREMENTS. NBS Circular 536. By Roald A. Schrack. 16 pp. U. S. Government Printing Office, Washington 25, D. C., 1953. \$0.15.

A THEORETICAL STUDY OF INTERPHASE MASS TRANSFER. By Robert W. Schrage. 103 pp. Columbia University Press, New York, 1953. \$3.50.