

resistance activities. The picture given of French research before the Liberation is one of quite continuous activity under conditions of almost complete isolation from the outside world, and against this background the bibliography contained in the *Digest* gains a particular interest since many of the books listed were written and published between 1940 and 1945.

The titles in the bibliographical listing are of books considered to be the most significant published during the nine-year period following the outbreak of World War II, including several written by Belgian and Swiss scientists. Many of the titles are amplified by reviews, reprinted either in full or in part, which had originally been published in one or another of a number of professional scientific journals, including the *Review of Scientific Instruments*, *Science*, and *Nature*. The volumes listed, according to the Foreword, are of at least university level. A few popular works of special interest have been included.

Accelerators

The four papers presented here as part of the *Physics in Industry Series*, covering cyclotrons, betatrons, synchrotrons, electrostatic generators, and linear accelerators, are, together with the discussion of the papers also included, based upon talks given at the 1949 Institute of Physics convention at Buxton, England. Brief but fairly thorough descriptive treatments of the various accelerators are contained, going as far as possible in the limited space provided. The authors include details on a number of existing machines, as well as short bibliographies of the more important publications on their particular subjects. (*The Acceleration of Particles to High Energies*. J. Rotblat et al. 54 pp. The Institute of Physics, London, 1950. 10s. 6d.)

Electrical Insulation

The *Conference on Electrical Insulation*, under the sponsorship of the Division of Engineering and Industrial Research of the National Research Council, held its nineteenth annual meeting at Pocono Manor, Pennsylvania, in November 1950. The program and abstracts of the papers presented have been issued as an *Annual Report* (108 pages) by the NRC.

Acoustical Terminology

The latest edition of the American Standards Association publication, *American Standard Acoustical Terminology*, Z24.1-1951, sponsored by the Acoustical Society of America in cooperation with the Institute of Radio Engineers, represents the combined efforts of a number of special committees to revise standards on acoustical and electroacoustical terminology since the appearance of the first edition in 1942. The section on speech and hearing, in particular, has undergone a thorough revision in order to be brought into agreement with the most recent experimental results. Copies of the new *Standard* may be obtained from the American Standards Association, 70 East 45th Street, New York 17, N. Y. (50 pp., \$1.50.)

Books Received

ÉLECTRICITÉ. By Y. Rocard. 538 pp. Masson et Cie, Éditeurs, Paris, France, 1951. 2200 Fr.

DIRECTORY OF INTERNATIONAL SCIENTIFIC ORGANIZATIONS. 224 pp. Unesco Publication 619. Unesco, Paris, France, 1950.

ELEMENTS OF MODERN PHYSICS. By Walter C. Michels and A. L. Patterson. 659 pp. D. Van Nostrand Company, Inc., New York, 1951. \$6.50.

SPECTROCHEMICAL ANALYSIS. By L. H. Ahrens and George R. Harrison. 269 pp. Addison-Wesley Press, Inc., Cambridge, Massachusetts. \$10.00.

PHOTOMETRIC ATLAS OF THE NEAR INFRA-RED SOLAR SPECTRUM $\lambda 8465$ TO $\lambda 25,242$. By Orren C. Mohler, A. Keith Pierce, Robert R. McMath, and Leo Goldberg. University of Michigan Press, Ann Arbor, Michigan, 1951. \$4.00.

THE BEHAVIOR OF ENGINEERING METALS. By H. W. Gillett. 395 pp. John Wiley & Sons, Inc., New York, 1951. \$6.50.

THE ORIGIN OF THE EARTH. By W. M. Smart. 239 pp. Cambridge University Press, New York, 1951. \$2.75.

ARTIFICIAL FIBRES. By R. W. Moncrieff. 313 pp. John Wiley & Sons, Inc., New York, 1951. \$4.50.

FROM THE LIFE OF A RESEARCHER. By William Weber Coblentz. 238 pp. Philosophical Library, New York, 1951. \$4.75.

JACOBIAN ELLIPTIC FUNCTION TABLES. A Guide to Practical Computation with Elliptic Functions and Integrals Together with Tables of $\text{sn } u$, $\text{cn } u$, $\text{dn } u$, $Z(u)$. By L. M. Milne-Thomson. 132 pp. Dover Publications, Inc., New York, 1951. \$2.45.

APPLIED ELECTRONICS ANNUAL 1951. Edited by R. B. Blaise. 263 pp. British-Continental Trade Press, Ltd., London, England. J. D. Griffiths, 2 Clark Court, Rutherford, N. J., American representative. \$8.00.

METAL SPECTROSCOPY. By F. Twyman. 569 pp. Charles Griffin & Co., Ltd., London, and Jarrell-Ash Co., Boston, Massachusetts, 1951. \$8.75.

SHORT WAVE WIRELESS COMMUNICATION. Including Ultra-Short Waves (Fifth Edition). By A. W. Ladner and C. R. Stoner. 717 pp. John Wiley & Sons, Inc., New York, 1951. \$8.00.

THE ACCELERATION OF PARTICLES TO HIGH ENERGIES. Based on a Session arranged by the Electronics Group at the Institute of Physics Convention in May, 1949. 58 pp. The Institute of Physics, London, 1950. 10s. 6d.

GLASS. A Handbook for Students and Technicians. Edited by J. Home Dickson. 300 pp. Hutchinson's Scientific and Technical Publications, New York, 1951. 25s.

METALLURGICAL THERMOCHEMISTRY. By O. Kubaschewski and E. L. Evans. 368 pp. Academic Press, Inc., New York, 1951. \$6.00.

SERVOMECHANISMS AND REGULATING SYSTEM DESIGN. Volume I. By Harold Chestnut and Robert W. Mayer. 505 pp. John Wiley & Sons, Inc., New York, 1951. \$7.75.

HIGH SCHOOL PHYSICS. By Oswald H. Blackwood, Wilmer B. Herron, and William C. Kelley. 671 pp. Ginn and Company, Boston, Massachusetts, 1951. \$3.76. Accompanying WORKBOOK AND LABORATORY MANUAL with TESTS. \$1.40.

MECHANICAL MEASUREMENTS BY ELECTRICAL METHODS (Second Edition). By Howard C. Roberts. 357 pp. The Instruments Publishing Co., Inc., Pittsburgh, Pennsylvania, 1951.