

method of obtaining asymptotic solutions for linear antennas, Stratton's and Chu's theory of spheroidal antennas, and Tai's variational treatment of biconical antennas are included.

V. T.

Reprint Service

The Physical Society, London, has recently started a reprint service available to its members and to subscribers to the *Proceedings of The Physical Society*. A monthly booklet containing abstracts of forthcoming papers is circulated free to all members and subscribers; reprints of any of these papers may then be ordered within a certain time limit. Members can receive up to twenty-five reprints in any one year at the special price of £1.1s (\$3.00), while vouchers for the use of subscribers can be purchased for 10s (\$1.40) for a book of five. Full details may be obtained from The Physical Society, 1 Lowther Gardens, Prince Consort Road, London, S.W. 7, England.

Rocket and Comet Orbits

Tables for Rocket and Comet Orbits, by Samuel Herrick, is a series of tables for computing the position and velocity at any time of an object, such as a comet or a rocket, traveling either in a rectilinear orbit, i.e. directly toward or away from the earth, or in ellipses and hyperbolas about the earth, whose eccentricities are nearly unity. The introduction discusses the kinds of motion covered by the tables, the use of the tables, and references to literature in the field. (National Bureau of Standards Applied Mathematics Series 20; 100 pp.; \$1.75; order from Government Printing Office, Washington 25, D. C.)

Photographic Sensitivity

Colloque sur la Sensibilité des Cristaux et des Emulsions Photographiques is the title of the recently published proceedings of a meeting held in September 1951 in Paris on the subject of photographic theory. The book is divided into five sections, 1. Crystals, 2. Emulsions (the latent image, optical sensitizing and desensitizing, preparation and chemical sensitizing), 3. Emulsions (treatments, properties of images), 4. Nuclear Emulsions, and 5. Miscellany. The papers of some seventy authors are included, and discussions of the papers that occurred at the meeting have been incorporated. These proceedings are in French and were edited by M. Morand and Mrs. A. Vassy. The publisher is Revue d'Optique Théorique et Instrumentale, 165 rue de Sèvres et 3 boulevard Pasteur, Paris XV*, and the price is 5300 francs including postage.

Visas and Passports

A discussion of the visa and passport work of the State Department and the Foreign Service under the Immigration and Nationality Act of 1952 (McCarran Act) has been issued by the Department as Publication 4980 of its Foreign Service Series 31. It is available for 15¢ from the Superintendent of Documents, Washington 25, D. C.

Books Received

FUNDAMENTALS OF PHYSICAL SCIENCE. AN INTRODUCTION TO THE PHYSICAL SCIENCES (Third Revised Edition). By Konrad Bates Krauskopf. 694 pp. McGraw-Hill Book Co., Inc., New York, 1953. \$6.00.

NATURFORSCHUNG UND MEDIZIN IN DEUTSCHLAND 1939-1946 (Fiat Review of German Science). PHYSIK DER FESTEN KÖRPER; Part I and II. Edited by Georg Joos. 228 pp.; 235 pp. Verlag Chemie, GmbH, Weinheim, Germany, 1947/48. Each volume DM 10.00.

FERROUS ANALYSIS. MODERN PRACTICE AND THEORY. (Second Revised Edition). By E. C. Pigott. 690 pp. John Wiley and Sons, Inc., New York, 1953. \$12.50.

ALUMINUM IN IRON AND STEEL. By Samuel L. Case and Kent R. Van Horn. 478 pp. John Wiley and Sons, Inc., New York, 1953. \$8.50.

ADVANCES IN CATALYSIS AND RELATED SUBJECTS. Vol. V. Contributors: R. B. Anderson, J. A. Christiansen, E. Field, E. A. Gulbransen, G. S. John, M. Katz, E. Lieber, F. L. Morritz, A. Nielsen, M. Orchin, T. N. Rhodin, Jr., J. G. Tolpin. Edited by W. G. Frankenburg, V. I. Komarewsky, and E. K. Rideal. 487 pp. Academic Press Inc., New York, 1953. \$11.00.

GALVANI. COMMENTARY ON ELECTRICITY. Translated by Robert Montravelle Green. 97 pp. Elizabeth Licht, Publisher, Cambridge, Massachusetts, 1953. \$4.00.

A SURVEY OF MODERN ALGEBRA (Revised Edition). By Garrett Birkhoff and Saunders MacLane. 472 pp. The Macmillan Company, New York, 1953. \$6.50.

LOW TEMPERATURE PHYSICS. By Charles F. Squire. 244 pp. McGraw-Hill Book Company, Inc., New York, 1953. \$6.50.

REVIEW OF CURRENT RESEARCH AND DIRECTORY OF MEMBER INSTITUTIONS. Edited by V. E. Neilly. 330 pp. Published biennially by the Engineering College Research Council of the American Society for Engineering Education, State College, Pennsylvania, 1953. \$2.50.

MEASUREMENT TECHNIQUES IN MECHANICAL ENGINEERING. By R. J. Sweeney. 309 pp. John Wiley and Sons, Inc., New York, 1953. Chapman & Hall, Ltd., London, England. \$5.50.

A BIBLIOGRAPHY ON METEORITES. Edited by Harrison Brown, assisted by Gunnar Kullerud and Walter Nichiporuk. 686 pp. The University of Chicago Press, Chicago, Illinois, 1953. \$10.00.

INTERNATIONAL SYMPOSIUM ON ATMOSPHERIC TURBULENCE IN THE BOUNDARY LAYER. Massachusetts Institute of Technology, June 4-8, 1951. Geophysical Research Papers No. 19. Edited by E. W. Hewson. 530 pp. Air Force Cambridge Research Center, Cambridge, Mass., 1952. U. S. Department of Commerce, Office of Technical Services, Washington 25, D. C.

PHYSICS PRINCIPLES AND APPLICATIONS (Second Edition). By Henry Margenau, William W. Watson, C. G. Montgomery. 814 pp. McGraw-Hill Book Co., Inc., New York, 1953. \$7.50.

OUR NEIGHBOUR WORLDS. By V. A. Firsoff. 336 pp. Philosophical Library, New York, 1953. \$6.00.

ATOMS AND ENERGY. By H. S. W. Massey. 174 pp. Elek Books Ltd., London, England, British Book Centre, New York, 1953. \$3.50.

MATHEMATICAL STRUCTURE OF THE THEORIES OF VISCOELASTICITY. By Bernhard Gross. 74 pp. Hermann & C^o, Éditeurs, Paris, France, 1953.