

societies and institutions in the United Kingdom, the British Commonwealth of Nations, Europe, and the United States. Both the American Institute of Physics and the American Physical Society were among the co-operating organizations from this country. The program was divided into the following five main sections: 1. heat transfer with change of state; 2. heat transfer between fluids and solids; 3. conduction in solids and fluids; 4. radiation, instrumentation, measurement techniques, and analogies; and 5. special problems. A total of ninety-three papers were presented during the several sessions, each of the latter being followed by a discussion period. Some weeks after the London meeting these discussions were continued in Atlantic City on the occasion of the 1951 Annual Meeting of the American Society of Mechanical Engineers (November 26-28). The present volume includes the papers, summary reports of the separate sessions and of the discussions in London and Atlantic City, and brief reviews of related communications and the replies made by authors. The Proceedings (\$10.00) may be ordered from the American Society of Mechanical Engineers, 29 West 39th Street, New York, N. Y.

### Geometry

*Geometry and the Imagination*, by D. Hilbert and S. Cohn-Vossen (357 pp.; Chelsea Publishing Co., 1952; \$5.00), is an able translation of the famous *Anschauliche Geometrie*. The German title means clear geometry, and this is the objective of the book. Geometry today is as complex and, to the layman, as obscure as most of higher mathematics. However, being based upon intuitive concepts of form, it can be presented in such a way that the visual and imaginative faculties of the reader rather than the formal calculations of the mathematician give insight into the nature of the problems involved and their significance. The present volume succeeds very well in this form of presentation, and the result is a readable exposition of modern geometry and its relation to other branches of mathematics.

### Stochastic Processes

A new NBS monograph, consisting of a series of invited lectures by Henry B. Mann, gives the fundamental concepts, principal theorems, and some detailed discussions of the theory of stochastic processes. A random variable is considered to be a symbol with which a distribution function is associated, and a stochastic process is then defined as a set of random variables. This approach leads to a theory which for many practical purposes is equivalent to the direct measure-theoretical approach, but which is claimed to have the advantage that the technicalities of abstract measure theory seem less obtrusive at the outset. *Introduction to the Theory of Stochastic Processes Depending on a Continuous Parameter*, by Henry B. Mann, National Bureau of Standards Applied Mathematics Series 24, v, 45 pp., 30 cents. (Order from Government Printing Office, Washington 25, D. C.)

### Books Received

MARX AND SCIENCE. By J. D. Bernal. 48 pp. International Publishers, New York, 1952. \$1.00.

ADVANCED MATHEMATICS IN PHYSICS AND ENGINEERING. By Arthur Bronwell. 476 pp. McGraw-Hill Book Company, Inc., New York, 1953. \$6.00.

METADYNE STATICS. By Joseph Maximus Pestarini. 415 pp. The Technology Press, Massachusetts Institute of Technology, and John Wiley and Sons, Inc., New York, 1952. \$9.00.

THE EXPANSION OF THE UNIVERSE. By Paul Couderc. 231 pp. The Macmillan Company, New York, 1952. \$6.00.

LOW-TEMPERATURE PHYSICS. Proceedings of the NBS Semicentennial Symposium on Low-Temperature Physics, March 1951. National Bureau of Standards Circular 519, U. S. Government Printing Office, Washington, D. C., 1952. \$1.75.

FERROELECTRICITY. By E. T. Jaynes. 137 pp. Princeton University Press, Princeton, New Jersey, 1953. Paperbound, \$2.00.

HIGH SPEED PHOTOGRAPHY. By George A. Jones. 311 pp. John Wiley and Sons, Inc., New York, 1952. \$6.50.

L. FARKAS MEMORIAL VOLUME. Edited by Adalbert Farkas and Eugene P. Wigner. 309 pp. Research Council of Israel; Interscience Publishers, Inc., New York, 1952. \$6.00.

CREEP OF METALS. By L. A. Rotherham. 80 pp. Institute of Physics, London, 1951. 15s.

MESON PHYSICS. By Robert E. Marshak. 378 pp. McGraw-Hill Book Company, Inc., New York, 1952. \$7.50.

GRAVITY WAVES. Proceedings of the National Bureau of Standards Semicentennial Symposium, June 1951. 287 pp. NBS Circular 521, Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., 1952. \$1.75.

ELECTROMAGNETICS. By John D. Kraus. 604 pp. McGraw-Hill Book Company, Inc., 1953. \$9.00.

CONFORMAL MAPPING. By L. Bieberbach. 234 pp. Chelsea Publishing Company, New York, 1953. \$2.25.

MICROMETEOROLOGY. By O. G. Sutton. 333 pp. McGraw-Hill Book Company, Inc., New York, 1953. \$8.50.

ANNUAL REVIEW OF NUCLEAR SCIENCE. Vol. II. Edited by C. D. Coryell, L. F. Curtiss, L. I. Schiff, E. Segrè, and R. E. Zirkle. 429 pp. Annual Reviews, Inc., Stanford, California, 1953. \$6.00.

THE COMPOSITION AND ASSAYING OF MINERALS. By John Stewart-Remington and Wilfrid Francis. 127 pp. The Philosophical Library, Inc., New York, 1953. \$5.50.

THE ATOM STORY. By J. G. Feinberg. 243 pp. Philosophical Library, Inc., New York, 1953. \$4.75.

VOLUME AND INTEGRAL. By Werner W. Rogosinski. 160 pp. Oliver and Boyd, London; Interscience Publishers, Inc., New York, 1952. \$1.75.

DIGEST OF THE LITERATURE ON DIELECTRICS. Vol. XV, 1951. Prepared by the Committee on Digest of Literature of the Conference on Electrical Insulation. Edited by Hans Thurnauer and Shepard Roberts. 203 pp. Publication 231, National Academy of Sciences, National Research Council, Washington, D. C., 1952.

CHARBONS ACTIVÉS. Adsorption des Gaz et des Vapeurs. By C. Courty. 534 pp. Gauthier-Villars, Paris, France, 1952. \$13.18.