

records in addition to other things. Perhaps they, together with sonic booms, are reserved for another volume.

The editing is inconspicuous: it is almost as though four separate monographs were bound together. The symbols are not uniform in the different sections of the book, and none of them has a glossary of symbols. There is some repetition; for example, two of the sections discuss the monopole source and give equations for its radiation impedance (one of which, p. 102, is wrong). A good supply of references is generally given, sometimes at the foot of the page and sometimes at the end of the section.

There is no author index, but there are two good bilingual subject indexes, each alphabetically arranged; the first is in German, with each entry followed by the English equivalent in italics, the second vice versa.

An unhappy mixture of Roman and Arabic numbers is used to designate the volumes of this encyclopedia, with the inevitable confusion between eleven (11) and (II). Our library ordered Vol. XI/1, *Acoustics I*, and got Vol. XIII, *Thermodynamics*, instead.

The section hailing from Italy contains two very handsome color plates, which remind us that the Roman tradition counts for something. The printing and binding of the book are of good quality, and probably justify the high price of some \$20. Altogether, it is a book the acoustician will be glad to have.

BOOKS RECEIVED

Space Science. Donald P. Le Galley, ed. 668 pp. John Wiley & Sons, Inc., New York, 1963. \$17.50.

An Introduction to Electronic Analogue Computers. By M. G. Hartley. 155 pp. (Methuen, London) John Wiley & Sons, Inc., New York, 1962. \$4.50.

Practical Radio Servicing (2nd ed.). By William Marcus. 624 pp. McGraw-Hill Book Co., Inc., New York, 1963. \$11.95.

The Scientist Speculates. An Anthology of Partly-Baked Ideas. Irving John Good, general ed. 413 pp. Basic Books, Inc., New York, 1962. \$6.95.

Differential Equations: Geometric Theory (2nd ed.). By Solomon Lefschetz. Vol. 6, Pure and Applied Mathematics, edited by R. Courant, L. Bers, J. J. Stoker. 390 pp. Interscience Div. of John Wiley & Sons, Inc., New York, 1963. \$10.00.

Flight Performance Handbook for Powered Flight Operations. Flight Mechanics and Space Vehicle Design, Empirical Formulae, Analytic Approximations and Graphical Aids. J. Frederick White, ed. John Wiley & Sons, Inc., New York, 1963. \$15.00.

The Nature of Scientific Thought. By Marshall Walker. 184 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963. Paperbound \$2.25.

Fluid Dynamics. An Introductory Account of Certain Theoretical Aspects Involving Low Velocities and Small Amplitudes. By G. H. A. Cole. 238 pp. (Methuen, London) John Wiley & Sons, Inc., New York, 1962. \$4.95.

Fundamentals of Thermodynamics. By Richard A. Kenyon and Hilbert Schenck, Jr. 294 pp. The Ronald Press Co., New York, 1963. \$8.50.

The Case Against the Nuclear Atom. By Dewey B. Larson. 139 pp. North Pacific Publishers, Portland, Ore., 1963. \$4.50.

Multicomponent Distillation. By Charles D. Holland. 506 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963. \$15.00.

Advances in Biological and Medical Physics, Volume 8. Cornelius A. Tobias, John H. Lawrence, Thomas L. Hayes, eds. 457 pp. Academic Press Inc., New York, 1962. \$15.00.

Normed Linear Spaces (2nd ed.). By Mahlon M. Day. 139 pp. (Springer-Verlag, Berlin) Academic Press Inc., New York, 1962. Paperbound \$5.50.

Solid State Physics, Volume 14. Advances in Research and Applications. Frederick Seitz and David Turnbull, eds. 519 pp. Academic Press Inc., New York, 1963. \$16.00.

Mathematical Theory of Elastic Equilibrium. Recent Results. By Giuseppe Grioli. 168 pp. (Springer-Verlag, Berlin) Academic Press Inc., New York, 1962. Paperbound \$7.25.

Selected Topics in Nuclear Theory. F. Janouch, ed. Internat'l Summer School Proc. (Czechoslovakia, Aug.-Sept. 1962). 452 pp. IAEA, Vienna, 1963. Distr. in US by Internat'l Publications, New York. Paperbound \$10.00.

Progress in Elementary Particle and Cosmic Ray Physics, Volume 6. J. G. Wilson and S. A. Wouthuysen, eds. 344 pp. North-Holland Publishing Co., Amsterdam, 1962. Distr. in US by John Wiley & Sons, Inc., New York. \$13.75.

The Logic Design of Transistor Digital Computers. By Gerald A. Maley and John Earle. 322 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963. \$13.00.

The Physics of Semiconductors. Conf. Proc. (Exeter, July 1962). 909 pp. The Institute of Physics & The Physical Society, London, 1962. £10 10s.

Chemical Calculations (2nd ed.). An Introduction to the Use of Mathematics in Chemistry. By Sidney W. Benson. 254 pp. John Wiley & Sons, Inc., New York, 1963. Paperbound \$2.95.

Atomes, Molécules, Noyaux. By Pierre Fleury and Jean-Paul Mathieu. Vol. 8, Physique Générale et Expérimentale. 346 pp. Eyrolles, Paris, 1963. 68,05 NF.

Strange Particles and Strong Interactions. By R. H. Dalitz. Vol. 1, Tata Institute of Fundamental Research Studies in Physics, edited by H. J. Bhabha. 187 pp. Published for the Tata Inst. of Fundamental Research, Bombay, by Oxford Univ. Press, New York, 1962. Paperbound \$5.05.

Chemistry of Combustion Reactions. By G. J. Minkoff and C. F. H. Tipper. 393 pp. Butterworths, London, 1962. \$14.95.

An Introduction to Electronics. By Dennis F. Shaw. 338 pp. John Wiley & Sons, Inc., New York, 1962. \$6.25.

Introduction to Scientific Inference. By Robert Hooke. 101 pp. Holden-Day Inc., San Francisco, 1963. \$4.74.

Magnetohydrodynamic Shock Waves. By J. Edward Anderson. 226 pp. The M.I.T. Press, Cambridge, Mass., 1963. \$6.50.

Operator Techniques in Atomic Spectroscopy. By Brian R. Judd. 242 pp. McGraw-Hill Book Co., Inc., New York, 1963. \$9.95.

Groups and Fields. A Programmed Unit in Modern Mathematics. By Boyd Earl, J. William Moore, Wendell I. Smith. 322 pp. McGraw-Hill Book Co., Inc., New York, 1963. Paperbound \$3.95, clothbound \$5.95.

Games, Gods and Gambling. The Origins and History of Probability and Statistical Ideas From the Earliest Times to the Newtonian Era. By F. N. David. 275 pp. Hafner Publishing Co., New York, 1962. \$6.50.

The Calculus. A Genetic Approach. By Otto Toeplitz. Transl. from German by Luise Lange. 192 pp. The Univ. of Chicago Press, Chicago, 1963. \$6.50.

Spectroscopy in the Metallurgical Industry. L. Bovey, ed. Symp. Proc. (Buxton Symp., July 1962). 90 pp. Hilger & Watts Ltd., London, 1963. Paperbound 30s.

Optical Character Recognition. George L. Fischer, Jr., Donald K. Pollock, Bernard Raddack, Mary Elizabeth Stevens, eds. 412 pp. Spartan Books, Washington, D. C., 1962. \$10.00.

Theory and Application of Liapunov's Direct Method. By Wolfgang Hahn. English ed. prepared by Siegfried H. Lehnigk. Transl. from German by Hans H. Hosenthien and Siegfried H. Lehnigk. 182 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963. \$9.00.

Basic Safety Standards for Radiation Protection. Safety Series No. 9. 57 pp. IAEA, Vienna, 1962. Distr. in US by Internat'l Publications, Inc., New York. Paperbound \$1.50.

Elementary Quantum Mechanics (reprint of 1934 ed.). By R. W. Gurney. 160 pp. Univ. of Nebraska Press, Lincoln, Neb., 1963. Paperbound \$1.25.

Electricity and Magnetism (2nd ed.). By Ralph P. Winch. 606 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963. \$9.75.

Solved and Unsolved Problems in Number Theory. By Daniel Shanks. 229 pp. Spartan Books, Washington, D. C., 1962. \$7.50.

Medical Biometeorology. Weather, Climate and the Living Organism. By S. W. Tromp. 991 pp. American Elsevier Publishing Co., Inc., New York, 1963. \$45.00.

The Language of Mathematics (2nd ed.). By Frank Land. 264 pp. Doubleday & Co., Inc., Garden City, N. Y., 1963. \$4.95.

Engineering Applications of Random Function Theory and Probability. John L. Bogdanoff and Frank Kozin, eds. Symp. Proc. (Purdue Univ., Nov. 1960). 421 pp. John Wiley & Sons, Inc., New York, 1963. \$8.75.

Chemistry of Coal Utilization. Supplementary Volume. H. H. Lowry, ed. 1142 pp. John Wiley & Sons, Inc., New York, 1963. \$37.50.

Handbook of Better Technical Writing. By Dudley H. Rowland. 239 pp. Business Reports, Inc., Larchmont, N. Y., 1962. Paperbound \$7.95.

Programming the IBM 7090: A Self-Instructional Programmed Manual. By James A. Saxon. 210 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963. \$9.00.

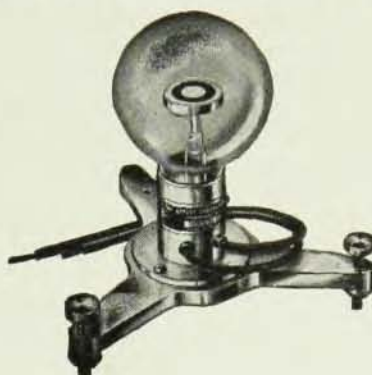
Infrared Absorption Spectroscopy—Practical. By Koji Nakanishi. 233 pp. (Nankodo Co., Tokyo) Holden-Day, Inc., San Francisco, 1962. \$8.00.

Little Science, Big Science. By Derek J. De Solla Price. 119 pp. Columbia Univ. Press, New York, 1963. \$4.50.

Shock and Vibration Engineering, Volume 1. By Charles T. Morrow. 384 pp. John Wiley & Sons, Inc., New York, 1963. \$12.00.

EPLAB

PYRHELIOMETER For the Measurement of SOLAR RADIATION



Eppley Pyrheliometers are used for solar radiation measurements at ninety-eight weather stations in the continental United States, Canada, Alaska, Greenland, Iceland, Caribbean Sea, and the Pacific Ocean. Sixty-two of these stations are under the direction of the United States Weather Bureau.

The Eppley Pyrheliometer was adopted as standard equipment by the Weather Bureau after considerable experimentation. It was found to be the best instrument so far tested by the Bureau.

Used in conjunction with a suitable recorder, the Eppley Pyrheliometer will provide an accurate and reliable record of total solar and sky radiation on a horizontal surface.

Bulletin No. 2 On Request

THE EPPLEY LABORATORY, INC.

Scientific Instruments

10 Sheffield Ave.

Newport, Rhode Island, U.S.A.