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sciences, medicine, food and agriculture, fuel and power, and so-called industrial research (e.g., polymer chemistry, metallurgy). The volume was attractively printed in France on better paper than most French books. Although paperbound, this may not detract from the value of the book.

Having made similar tabulations and evaluations in more limited areas, I admired the completeness attained, without dwelling on "name" effects and explanatory detail. The style throughout is consistent and a precise, correct, and scientifically universal vocabulary is used throughout. Of special interest are the summaries of the trends in terms of resources, scientific cooperation, applications, and world-wide dissemination of results. The final part on recommendations is necessarily brief and conservative.

Outside of its strict mission (which was far too grand and idealized to be more than tokenly accomplished), it serves neither as a reference work nor as a basis for industrial "long-range planning" studies, but as a window into the world's scientific effort, circa 1960. Upon perusal of this report, implications included, one feels as gazing at the night sky, painfully realizing its vastness, even though a constellation or two may be recognized.

BOOKS RECEIVED

The Study of Rockets, Missiles, and Space Made Simple. By Walter B. Hendrickson, Jr. 151 pp. Doubleday & Co., Inc., Garden City, N. Y., 1963. Paperbound \$1.45.

Angular Momentum. By D. M. Brink and G. R. Satchler. 134 pp. Oxford Univ. Press, Oxford, 1962. Paperbound \$2.40.

Space Logistics Engineering. Kenneth Brown and Lawrence D. Ely, eds. 623 pp. John Wiley & Sons, Inc., New York, 1962. \$16.95.

Biological Transport. By Halvor N. Christensen. 133 pp. W. A. Benjamin, Inc., New York, 1962. \$6.50.

Uranium Metallurgy. By W. D. Wilkinson. Vol. 1, Uranium Process Metallurgy, 755 pp., \$18.00; Vol. 2, Uranium Corrosion and Alloys, 735 pp., \$16.00. Interscience Div. of John Wiley & Sons, Inc., New York, 1962.

Basic Theories of Physics (reprint of 1951 ed.). Heat and Quanta. By Peter Gabriel Bergmann. 300 pp. Dover Publications, Inc., New York, 1962. Paperbound \$1.75.

Basic Theories of Physics (reprint of 1949 ed.). Mechanics and Electrodynamics. By Peter Gabriel Bergmann. 280 pp. Dover Publications, Inc., New York, 1962. Paperbound \$1.75.

Theoretical Physics (reprint of 1961 ed.). By A. S. Kompaneys. Edited by George Yankovsky. 592 pp. Dover Publications, Inc., New York, 1962. Paperbound \$2.45.

Principles of Mechanics and Dynamics (reprint of 1879 ed. of Treatise on Natural Philosophy). By William Thomson and Peter Guthrie Tait. Part 1, 508 pp., \$2.35; Part 2, 527 pp., \$2.35. Dover Publications, Inc., New York, 1962. Both paperbound.

An Introduction to Phase-Integral Methods. By J. Heading. 160 pp. (Methuen, London) John Wiley & Sons, Inc., New York, 1962. \$4.50.

Reactor Handbook (2nd ed.). Vol. 3, Part A, Physics, edited by H. Soodak. 313 pp. Interscience Div. of John Wiley & Sons, Inc., New York, 1962. Paperbound \$10.75.

X-Ray Optics (2nd ed.). The Diffraction of X-Rays by Finite and Imperfect Crystals. By A. J. C. Wilson. 147 pp. (Methuen, London) John Wiley & Sons, Inc., New York, 1962. \$4.50.

Advanced Engineering Mathematics. By Erwin Kreyszig. 856 pp. John Wiley & Sons, Inc., New York, 1962. \$10.50.

Frontiers of Science and Philosophy. Vol. 1, University of Pittsburgh Series in the Philosophy of Science. Robert G. Colodny, ed. 288 pp. Univ. of Pittsburgh Press, Pittsburgh, 1962. \$7.50.

Basic Theory and Application of Tunnel Diodes. By Sylvester P. Gentile. 295 pp. D. Van Nostrand Co., Inc., Princeton, N. J., 1962. \$9.00.

Space: Frontier Unlimited. By Harold Leland Goodwin. 144 pp. D. Van Nostrand Co., Inc., Princeton, N. J., 1962. Paperbound \$1.45.

Hilbertsche Räume mit Kernfunktion. By Herbert Meschkowski. 256 pp. Springer-Verlag, Berlin, 1962. Cloth-bound DM 58, paperbound DM 53.

Gravitation: An Introduction to Current Research. Louis Witten, ed. 481 pp. John Wiley & Sons, Inc., New York, 1962. \$15.00.

Annual Review of Nuclear Science, Volume 12. Emilio Segrè, Gerhart Friedlander, Walter E. Meyerhof, eds. 633 pp. Annual Reviews, Inc., Palo Alto, Calif., 1962. \$8.50.

Plasma Hydromagnetics. Daniel Bershadner, ed. Symp. Proc. (Palo Alto, Dec. 1961). 146 pp. Stanford Univ. Press, Stanford, Calif., 1962. \$4.50.

William Harvey. Trailblazer of Scientific Medicine. By Rebecca B. Marcus. 127 pp. Franklin Watts, Inc., New York, 1962. \$2.21.

Johannes Kepler and Planetary Motion. By David C. Knight. 186 pp. Franklin Watts, Inc., New York, 1962. \$2.21.

Applied Cryogenic Engineering. R. W. Vance and W. M. Duke, eds. 510 pp. John Wiley & Sons, Inc., New York, 1962. \$17.50.

The Theory of Plasma Waves. By Thomas Howard Stix. 283 pp. McGraw-Hill Book Co., Inc., New York, 1962. \$9.75.

Thermodynamics of Nuclear Materials. Symp. Proc. (Vienna, May 1962). 808 pp. IAEA, Vienna, 1962. Distr. in US by Internat'l Publications, New York. Paperbound \$11.00.

Physics of Fully Ionized Gases (2nd ed.). By Lyman Spitzer, Jr. Vol. 3 of Tracts on Physics and Astronomy, edited by R. E. Marshak. 170 pp. Interscience Div. of John Wiley & Sons, Inc., New York, 1962. \$4.75.

Transistors. By Dennis Le Croisette. 280 pp. Prentice-Hall, Inc., Englewood Cliffs, N. J., 1963. \$9.00.

Introduction to Nuclear Physics. By Anwar Hossain and Inam-Ur-Rahman. 206 pp. Pakistan Atomic Energy Commission, Pakistan, 1962. Rs. 15.00.

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