The author concludes by describing two experimental techniques of current interest—radio astronomy and artificial satellites. His treatment of satellites is especially valuable since he presents them in proper perspective as remote research stations in otherwise inaccessible regions.

I believe that *The New Age in Physics* will be of great value to those who have some background in classical physics and who have kept their elementary mathematics more or less up to date. Specifically, the book should be most rewarding to scientists in fields other than physics, also to engineers, teachers, physics students, and others who are willing to take the trouble to read with care a book that is densely packed with ideas. This may not be a "popular" book since it would seem to require some previous knowledge of physics. Though not a textbook, it would certainly make excellent supplementary reading in any elementary physics course.

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**The Structure of the Eye**. Proceedings of the symposium held 11–13 April 1960, during the 7th International Congress of Anatomists. George K. Smelser, Ed. Academic Press, New York, 1961. xv + 570 pp. Illus. $15.

The symposium brought together a large group of international authorities in the fields of the structure and biochemistry of the eye. Electron microscopic, histochemical, immunologic, and biochemical techniques were used to elucidate structural problems. These are not only of significance in ophthalmology but also serve as important model systems: for example, vitreous humor is one of the simplest and most accessible models of mucoid connective tissue; the cornea is one of the simplest and most regular examples of fibrous tissue; the retina can be used as an important model in many phases of neurophysiology; the lack of vascularization of the cornea allows biochemical studies to be made without interference from functions of the blood vessels; proteins of the lens have been used for a long time in studying basic problems of immunologic tissue specificity. In addition to basic structural and physiologic problems, topics discussed include ophthalmic embryology and teratology, radiation biology, and nutritional aspects. This book presents a good cross section of the newer trends in molecular biology and anatomy as applied to ophthalmologic problems.

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**Land in British Honduras**. Report of the British Honduras Land Use Survey Team. Colonial Research Publications No. 24. D. H. Romney, Ed. Her Majesty's Stationery Office, London, 1959. 2 vols., vii + 326 pp. Illus. + maps. 55s.

This 8800 square mile territory has in this study been divided into 25 subregions, and for each of them the climate, soils, and vegetation have been described and the present land use practice has been analyzed. There are sections on past land use (emphasis on the Maya), land tenure, land forms, and geology; appendixes containing further information on vegetation patterns and lists of plants and animals; and numerous, well-drawn figures and maps. Larger scale maps (1 to 250,000) are contained in a separate folder.

This almost encyclopedic treatment of land and land-people relationships in British Honduras is essential reading for any scholar, businessman, or administrator concerned with that territory.

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## New Books

### Mathematics, Physical Sciences, and Engineering

**Principles of Inertial Navigation**. C. J. Savant, Jr., R. C. Howard, C. B. Solloway, and C. A. Savant. McGraw-Hill, New York, 1961. 264 pp. Illus. $9.75.

**Principles of Manufacturing Materials and Processes**. James S. Campbell. McGraw-Hill, New York, 1961. 683 pp. Illus. $9.75.

**Progress in Aeronautical Sciences**. vol. 1. Antonio Ferri, D. Kuchemann, and L. H. G. Sterne, Eds. Pergamon, New York, 1961. 289 pp. Illus. $12.50.

**Progress in Operations Research**. vol. 1. Russell L. Ackoff, Ed. Wiley, New York, 1961. 517 pp. $11.50. First volume in a new series designed to serve as basic reference works. Emphasis in volume 1 is on technical progress in inventory theory, linear and dynamic programming, queuing theory, sequencing theory, replacement theory, simulation, and gaming.

**Pure Mathematics**. A university and college course. vol. 2, *Algebra, Trigonometry, Coordinate Geometry*. Cambridge Univ. Press, New York, 1960. 447 pp. $6.50.

**Relativistic Electron Theory**. M. E. Rose. Wiley, New York, 1961. 315 pp. $9.50.

**Science in Space**. Lloyd V. Berkner and Hugh Odishaw, Eds. McGraw-Hill, New York, 1961. 468 pp. Illus. $7.

**A Second Course in Statistics**. Robert Loveday. Cambridge Univ. Press, New York, 1961. 166 pp. $1.85.

**Sequential Decoding**. John M. Wozencraft and Barney Reiffen. Technology Press and Wiley, New York, 1961. 79 pp. Illus. $3.75.

**Simplified Calculus**. F. L. Westwater. Macmillan, New York, 1961. 175 pp. Illus. $3.50.

**Spaceflight Technology**. Kenneth W. Gatland. Academic Press, New York, 1960. 380 pp. Illus. $11. Proceedings of the first Commonwealth Spaceflight Symposium, organized by the British Interplanetary Society, 1959.

**Tables of the Hypergeometric Probability Distribution**. Gerald J. Lieberman and Donald B. Owen. Stanford Univ. Press, Stanford, Calif., 1961. 733 pp. $15.

**Tables of ln Γ [z] for Complex Argument**. A. A. Abramov. Translated from the Russian by D. G. Fry. Pergamon, New York, 1960. 331 pp. $17.50.

**Teach Yourself Atomic Physics**. J. M. Valentine. Macmillan, New York, 1961. 192 pp. $1.95.

**Theoretical Physics in the Twentieth Century**. A memorial volume to Wolfgang Pauli. M. Fierz and V. F. Weisskopf, Eds. Interscience, New York, 1960. 338 pp. $10.

**Theory of Elastic Stability**. Stephen P. Timoshenko. McGraw-Hill, New York, ed. 2, 1961. 557 pp. Illus. $15.

**Thermal Reactor Theory**. A. D. Galanin. Translated from Russian ed. 2 (1958?) by J. B. Sykes. Pergamon, New York, 1960. 426 pp. Illus. $15.

**Time-Harmonic Electromagnetic Fields**. Roger F. Harrington. McGraw-Hill, New York, 1961. 491 pp. Illus. $13.50.

**Tools of the Astronomer**. G. R. Miczaika and William M. Sinton. Harvard Univ. Press, Cambridge, Mass., 1961. 302 pp. $7.75.

**Transcendental and Algebraic Numbers**. A. O. Gelfond. Translated from the Russian ed. 1 by Leo F. Boron. Dover, New York, 1960. 197 pp. $1.75.

**Transmission of Information**. A statistical theory of communications. Robert M. Fano. M.I.T. Press and Wiley, New York, 1961. 399 pp. Illus. $7.50.

**Ultrasonics and Its Industrial Applications**. O. I. Babikov. Translated from Russian. Consultants Bureau, New York, 1960. 230 pp. Illus. $9.75. Originally published in 1958 as a part of the "Physicomathematical Engineering Library."