

# Books of the Week

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**ADVANCES IN ELECTRONIC CIRCUIT PACKAGING.** Vol. 4—Michael A. Marrese, Ed.—Plenum Press, 490 p., illus., \$17.50. Contains reports on such developmental topics as multilayer printed circuits, thin-film logic units, the B-module, and electronic module connectors.

**AIRCRAFT AT WORK**—Mary Elting—Harvey House, 93 p., illus. by Janet and Alex D'Amato, \$2.95. Acquaints children with all sorts of airplanes and the special work they are designed to do.

**AVIATION EDUCATION BIBLIOGRAPHY**—Jane N. Marshall—National Aerospace Educ. Council, 4th ed., 64 p., paper, 25¢ direct to publisher, 1025 Conn. Ave., Washington, D. C. 20036. Compilation

of books, references, periodicals, films and other teaching aids related to aviation.

**BIOLOGY AND ITS RELATION TO MANKIND**—A. M. Winchester—Van Nostrand, 3rd ed., 632 p., illus., \$8.50. Textbook revised to include latest discoveries in the fields of molecular and cell biology, photosynthesis, meiosis and genetics.

**THE CELL**—John Pfeiffer and the Editors of LIFE; Rene Dubos, Henry Margenau and C. P. Snow, Consult. Eds.—Time Inc., 200 p., illus., \$3.95 direct to Time Book Div., 540 N. Mich. Ave., Chicago, Ill. A fascinating many-pictured story of the fabric life is made of, showing how the cell works, generating energy and building new materials.

**COMPOSITION OF FOODS:** Raw, Processed, Prepared—Bernice K. Watt and Annabel L. Merrill with others—USDA (GPO), rev. ed., 190 p., paper, \$1.50. Notes and tables on nutritive values of 2,500 items of food, based on recent findings.

**CONCISE INORGANIC CHEMISTRY**—J. D. Lee—Van Nostrand, 248 p., diagrams, \$8.50. Discusses the arrangement of electrons in atoms, the determining factors of bonding, various types of bonds and the structure of ionic, covalent and coordination compounds.

**CONVERGING SOCIAL TRENDS, EMERGING SOCIAL PROBLEMS**—Welfare Administration, Div. of Research—HEW (GPO), 96 p., graphs, paper, 55¢. Data presented in charts and tables to serve as a factual basis for understanding and discussion.

**CRYOGENICS**—Michael McClintock—Reinhold, 270 p., illus., \$10.75. This readable treatise presents basic concepts, the most interesting of the physical phenomena, and modern engineering applications.

**DEVELOPMENTS IN APPLIED SPECTROSCOPY,** Vol. 3—J. E. Forrester and E. Lanterman, Eds.—Plenum Press, 409 p., illus., \$17.50. Proceedings of the Fourteenth Annual Mid-America Spectroscopy Symposium held in Chicago in 1963, deals with X-ray spectroscopy, infrared Raman spectroscopy, and emission spectroscopy.

**THE DINOSAUR HUNTERS:** Othniel C. Marsh and Edward D. Cope—Robert Plate—McKay, 281 p., \$4.95. Tells the story of the adventures, conflicts and discoveries of two scientists who made great contributions to early American paleontology.

**DISCOVERY:** The Autobiography of Vilhjalmur Stefansson—McGraw, photographs, map, \$7.50. A full record of the life and achievements that made the late author a top authority on the Arctic and its people.

**AN INTRODUCTION TO DETERMINANTS AND MATRICES**—F. Bowman—Van Nostrand, 163 p., \$3.75. Intended as an introduction to the more advanced books, theoretical and numerical, on the algebra of matrices and their applications.

**AN INTRODUCTION TO THE MATHEMATICS OF SERVOMECHANISMS**—J. L. Douce—Van Nostrand, 240 p., diagrams, \$4.50. A guide to the use of mathematical techniques now available for the description of automatic control system behavior.

**LABORATORY GUIDE FOR ZOOLOGY**—Alfred M. Elliott—Burgess, 4th ed., 237 p., illus., paper, \$3.50. Tested and revised material built around the central principle of evolution.

**THE MATHEMATICAL PRINCIPLES OF NATURAL PHILOSOPHY**—Isaac Newton, introd. by Alfred del Vecchio—Philosophical Lib., 447 p., \$10. Reprint of the great scientific treatise of the 17th century.

**MICRO-ORGANISMS:** What They Are, Where They Grow, What They Do—C. R. Benjamin, W. C. Haynes and C. W. Hesselatine—USDA (GPO), 36

p., paper, 20¢ direct to Govt. Printing Office, Washington, D. C., 20402. Directed to technical people and college science students with no microbiological training.

**MONOGRAPHS IN THE SURGICAL SCIENCES,** Vol. I, No. 1—William G. Anlyan and David C. Sabiston, Jr., Eds.—William & Wilkins, 117 p., illus., paper, \$5; quarterly annual subscription \$10. This first issue presents original work on bleeding diatheses in surgical patients, and on external cardiac resuscitation.

**NUCLEAR TERMS:** A Brief Glossary—James D. Lyman and Benjamin S. Loeb, Eds.—U.S. Atomic Energy Commission, 37 p., paper, single copies free upon request direct to publisher, P.O. Box 62, Oak Ridge, Tenn. 37831. Intended to serve as a ready reference for news reporters and editors.

**THE PARACHUTE:** From Balloons to Skydiving—James R. Greenwood—Dutton, 133 p., photographs, \$3.50. The history of parachuting, for young people.

**A PARENT'S GUIDE TO THE NEW MATHEMATICS**—Evelyn Sharp, preface by Harry D. Ruderman—Dutton, 180 p., diagrams, \$4.95. Includes problems and answers to help parents to understand what the new concepts used in their children's mathematics teaching are, from the use of sets to calculating probability.

**PHYSICAL ASPECTS OF IRRADIATION:** Recommendations of the International Commission on Radiological Units and Measurements—National Bureau of Standards Handbook 85 (GPO), 106 p., paper, 70¢. Presents recommendations agreed upon at the meeting of the Commission in 1962.

**PLENUM PRESS HANDBOOKS OF HIGH TEMPERATURE MATERIALS** No. 2: Properties Index—G. V. Sansonov, transl. from Russian, foreword by Henry H. Hausner—Plenum Press, 418 p., \$22.50. An encyclopedic reference work on the properties of refractory compounds including references up to late 1963.

**PRINCIPLES OF BIOLOGY**—W. Gordon Whaley and others—Harper, 3rd ed., 776 p., illus., \$8.95. New edition places major emphasis on development and function, stressing the fundamentals of physics and chemistry to permit interpretation of biology at the molecular level.

**PROCEEDINGS OF THE NASA-AEC LIQUID-METALS CORROSION MEETING,** Vol. I—Louis Rosenblum, Chmn.—NASA (OTS), 316 p., illus., paper, \$5. Discussion of the mechanisms of liquid-metal corrosion, the results of compatibility tests with alkali metals and the problems involved.

**SENSORY EVOKED RESPONSE IN MAN**—Robert Katzman, Ed.—N. Y. Acad. of Sciences, Annals, Vol. 112, Art. 1, 546 p., illus., paper, \$7. Monograph devoted primarily to the physiological, pathological and psychological correlates of evoked responses, from a discussion of evoked responses from the depth of the human brain, to a report on evoked responses to clicks in delirium tremens.

**THE UNCONSCIOUS IN SOCIAL RELATIONS:** An Analysis of Unconscious Processes in Personality, Society and Culture—Otakar Machotka—Philosophical Lib., 321 p., \$6. A study of the role of the unnoticed processes at work in such diverse areas as the interaction between people, the formation of impressions, norms and values, and the transmission of social heritage.

**U. S. CIVIL AIRCRAFT, Vol. 2 (ATC 101-ATC 200)**—Joseph P. Juptner—Aero Pubs., 296 p., 317 photographs, \$8.50. Describes and pictures airplanes of the 1929 era which were awarded Approved Type Certificates 101 through 200.

**VIEW FROM THE SEVENTH FLOOR**—W. W. Rostow—Harper, 178 p., \$4. The Chairman of the Policy Planning Council of the State Department evaluates American strategy and its prospects for the future.

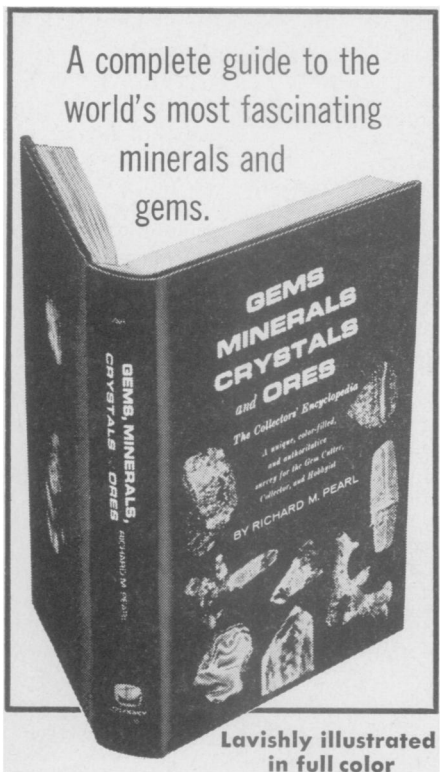
**WATCHERS, PURSUERS AND MASQUERADERS:** Animals and Their Vision—Edith Raskin—McGraw, 160 p., illus. by P. A. Hutchison, \$3.50. Shows young readers how various mammals, birds, insects, fish and reptiles use the visual sense to obtain food and evade enemies.

**WONDER WORLD OF MICROBES**—Madeline P. Grant—McGraw, 2nd ed., 173 p., illus. by Clifford N. Geary, \$3.50. New edition highlights our new knowledge of viruses and DNA and RNA molecules, and offers experiments young people can do at home.

• Science News Letter, 85:396 June 20, 1964

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