

Books of the Week

For the editorial information of our readers, books received for review are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C.

BELOVED BOTANIST: The Story of Linnaeus—Adrien Stoutenburg and Laura Nelson Baker—*Scribner*, 192 p., illus., \$2.95. Biography for young people.

THE BIG GAME ANIMALS OF NORTH AMERICA—Jack O'Connor, with Natural Histories by George G. Goodwin—*Outdoor Life (Dutton)*, 264 p., illus. by Douglas Allen, \$10; \$8.50 until 1/1/62. From Alaskan Dall sheep to the walrus, this book describes big game wildlife from the hunter's and from the naturalist's viewpoints.

THE BIOSYSTEMATICS OF AMERICAN CROWS—David W. Johnston—*Univ. of Wash. Press*, 119 p., graphs, \$3.25. Study of the characteristics of American crows as they relate to their geographic range, habitat choice, voice, and other ecological differences.

CARBON-14 AND OTHER SCIENCE METHODS THAT DATE THE PAST—Lynn and Gray Poole—*Whittlesey House*, 160 p., illus. by P. A. Hutchinson, \$3.50. Tells young people about radiocarbon dating, thermoluminescence and dating by obsidian, and what these methods have brought to light.

THE CLOUD FOREST: A Chronicle of the South American Wilderness—Peter Matthiessen—*Viking*, 280 p., photographs, maps, \$6.50. An intimate picture of life in the wilderness of the Andean sierra, Tierra del Fuego, Mato Grosso and the jungles of Peru.

A DIRECTORY OF SAFETY FILMS—Accident Prevention Committee, Bruce W. Everist, Chmn.—*Am. Acad. of Pediatrics*, 79 p., paper, single copies free upon request directly to publisher, 1801 Hunman Ave., Evanston, Ill. Describes safety films for adults and children, and lists sources.

DOLPHINS: The Myth and the Mammal—Antony Alpers—*Houghton*, 268 p., illus. by Erik Thorn, \$5. Fables, true experiences and biological facts about these gentle and remarkably intelligent marine animals.



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W. L. REED, Editor;

Foreword by SIR ADRIAN BOULT

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EQUIPMENT AND SUPPLIES: Tested and Approved for Pre-School, School and Home—Alida H. Hisle, Ed.—*Assn. for Childhood Educ.*, 116 p., illus., paper, \$1.50. Revised list.

EVOLUTION AND CHRISTIANS—Philip G. Fothergill—*Longmans*, 395 p., illus., \$9.50. Catholic biologist's balanced account of the classical evidence of organic evolution and of modern evolutionary theory.

EVOLUTION OF THE VERTEBRATES: A History of the Backboned Animals Through Time—Edwin H. Colbert—*Science Editions*, 479 p., illus., paper, \$2.45. General review of vertebrate evolution as based on the fossil record, for student and layman. Reprint.

GUIDE TO CAMPSITES — Camping Family (Hammond) 382 p., illus., maps, \$3.95; paper, \$2.50. Indexed, state-by-state information on national, state and local parks, forests and recreation areas.

HAMMOND'S AMBASSADOR WORLD ATLAS—Hammond, 2nd ed., 500 p., 480 maps, \$15; \$13.50 before Christmas. Family atlas, 60th anniversary edition, up-to-date physical and political maps, gazetteer of cities, latest census figures used, basic facts on solar system.

HANDBOOK OF CHEMISTRY AND PHYSICS: A Ready-Reference Book of Chemical and Physical Data—Charles D. Hodgman, Robert C. Weast and Samuel M. Selby, Eds.—*Chemical Rubber Pub. Co.*, 43rd ed., 3513 p., \$12. Revised standard reference, classified under five indexes.

HOW TO DISSECT: Exploring with Probe and Scalpel—William Berman—*Sentinel Bks.*, 127 p., illus., paper, \$1. Beginner's guide to dissecting frog, flower and other specimens.

I.G.Y.: The Year of the New Moons—J. Tuzo Wilson, foreword by Lloyd V. Berkner—*Knopf*, 359 p., illus., \$5.95. Combines a record of the scientist's world-wide journeys with an account of the scientific work accomplished by this great international cooperative effort among scientists.

THE INEXHAUSTIBLE SEA—Hawthorn Daniel and Francis Minot—*Collier Bks.*, 192 p., paper, 95¢. First published in 1954, about marine life and ocean research.

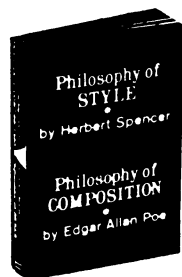
THE INQUIRING MIND—Cyril O. Houle—*Univ. of Wis. Press*, 87 p., paper, \$1.50. A study of the adult who continues to learn.



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THE INTERPRETATION OF DREAMS—Sigmund Freud, transl. from German and ed. by James Strachey—*Science Editions*, 692 p., paper, \$1.95. Originally published in 1955.

AN INTRODUCTION TO THE ELEMENTS OF MATHEMATICS—John N. Fujii—*Wiley*, 312 p., \$6.25. First year college course designed to teach mathematics as a branch of human culture.

IS THERE A FUTURE SCIENTIST OR ENGINEER IN YOUR HOME: A Guidebook for Parents—*Battelle Memorial Institute*, 30 p., illus., paper, single copies free upon request direct to publisher, Public Service, Columbus 1, Ohio. To help parents discover and encourage scientific talent.

ISHI IN TWO WORLDS: A Biography of the Last Wild Indian in North America—Theodora Kroeber, foreword by Lewis Gannett—*Univ. of Calif. Press*, 255 p., photographs, \$5.95. Story of the last of the Yahi Indian tribe in California, living Stone Age man in the 20th century.

THE LOGIC OF SCIENTIFIC DISCOVERY—Karl R. Popper—*Science Editions*, 480 p., paper, \$2.45. Reprint of 1958 English edition.

THE LONG, LONELY LEAP—Captain Joseph W. Kittinger, Jr. with Martin Caidin—*Dutton*, 249 p., photographs, \$4.95. Personal story of the record parachutist who jumped from almost 20 miles above the earth.

MCGRAW-HILL ENCYCLOPEDIA OF RUSSIA AND THE SOVIET UNION—Michael T. Florinsky, Ed.—*McGraw*, 624 p., illus., \$23.50. Attempts to present concise, up-to-date and objective information on Russia. Articles written by qualified American experts, such as coverage of mathematics by Saul Kravetz, medical system by Mark G. Field and physics by John Turkevich.

MAN, TIME AND FOSSILS: The Story of Evolution—Ruth Moore—*Knopf*, 2nd rev. ed., 499 p., illus. by Sue Richert, photographs, \$6.95. Enlarged edition incorporates the latest finds of human species in East Africa.

A MODEL OF THE MIND: Explored by Hypnotically Controlled Experiments and Examined for Its Psychodynamic Implications—Gerald S. Blum and others—*Wiley*, 229 p., illus., \$6.95. Describes experiments designed to explore those mental functions between stimulus and response.

1961 PROCEEDINGS OF THE INSTITUTE OF ENVIRONMENTAL SCIENCES—Arthur Billet, Chmn.—*Inst. of Environmental Sciences*, 684 p., illus., paper, \$12. Technical papers on simulation methods, ground, marine, thermal and space environments, spacecraft and vibration problems.

ON GROWTH AND FORM—D'Arcy Wentworth Thompson; abridged by John Tyler Bonner—*Cambridge*, 346 p., illus., \$5.95. Shorter version of work analyzing biological processes in their mathematical and physical aspects.

PIONEERING IN SPACE—Walter B. Hendrickson, Jr.—*Bobbs*, 256 p., illus. by Jack Russell, \$3.50. Elementary introduction to the U. S. space program, for younger boys.

THE SEAS AND THE SUBS—Ed Rees—*Duell*, 233 p., illus., \$4.50. Story of the nuclear-powered, missile-carrying Polaris submarine.

SPACE NOMADS: Meteorites in Sky, Field & Laboratory—Lincoln Lapaz and Jean Lapaz—*Holiday House*, 187 p., photographs, diagrams,

(Continued on p. 358)

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Books of the Week

(Continued from p. 356)

\$3.95. Non-technical introduction to the science of meteorites.

THE STRUCTURE OF MATTER—Francis Owen Rice and Edward Teller—*Science Editions*, 361 p., diagrams, paper, \$1.95. Reprint of 1949 edition, explains the microstructure of matter with the help of quantum mechanics.

TEXTBOOK OF BIOCHEMISTRY—Edward Staunton West and Wilbert R. Todd—*Macmillan*, 3rd ed., 1423 p., illus., \$16.75. Thoroughly revised facts and theories, contains new chapters on metabolism of special tissues and on nucleic acid metabolism.

THIS CROWDED PLANET—Margaret O. Hyde—*Whittlesey House*, 159 p., illus. by Mildred Waltrip, \$3. Explains the complex problems of population pressure to young people.

TIME AND THE PHYSICAL WORLD—Richard Schlegel—*Mich. State Univ. Press*, 211 p., diags., \$7.50. Examines time as an aspect of the natural universe, from cyclical processes and clocks to time and quantum theory.

TOMORROW'S ILLITERATES: The State of Reading Instruction Today—Charles C. Walcutt, Ed., introd. by Jacques Barzun—*Little*, 168 p., \$3.95. Sponsored by the Council for Basic Education, a group of specialists explores the consequences of mistaken theories of reading instruction.

TRAINED AND SCULPTURED PLANTS: A Handbook—Emily L. Brown, Ed.—*Brooklyn Botanic Garden*, 64 p., illus., paper, \$1. Guide to the trimming and training of trees, shrubs and vines.

U. S. GOVERNMENT FILMS FOR PUBLIC EDUCATIONAL USE, 1960—Seerly Reid with Katherine W. Clugston and Annie Rose Daugherty—*Off. of Educ. (GPO)*, 502 p., \$2.75. Alphabetical, annotated listing by title and by subject of motion pictures and filmstrips available from all branches of the Federal Government.

WATCHERS AT THE POND—Franklin Russell—*Knopf*, 265 p., illus. by Robert W. Arnold, \$4.50. Naturalist observes the cycle of the seasons in the creatures around a pond.

WEBSTER'S THIRD NEW INTERNATIONAL DICTIONARY OF THE ENGLISH LANGUAGE, UNABRIDGED—Philip Babcock Gove, Ed-in-Chief—*Merriam*, 2662 p., illus., \$47.50. Completely new, authoritative and precise definitions of 450,000 generic words in written and spoken English, giving derivations, forms, sounds and meanings. Usefulness is stressed, obsolete words are omitted to make place for such terms as "Van Allen radiation belts" and "Zinjanthropus."

WHAT IVAN KNOWS THAT JOHNNY DOESN'T—Arthur S. Trace, Jr.—*Random House*, 213 p., \$3.95. A comparison of Soviet and American School programs, grade school readers, study of literature, foreign languages, history and geography.

WINTERING OF PLANTS—I. M. Vasil'yev, transl. from Russian by Jacob Levitt, Ed.—*ALBS*, 300 p., illus., \$9. Translation of recent research indicating the aims, concepts and methods of Russian plant scientists.

THE WONDERFUL HUMAN MACHINE—*Am. Medical Assn.*, 56 p., illus., paper, \$1 directly to publisher, 535 N. Dearborn St., Chicago 10, Ill. Simple description of the structure and functioning of the human body.

THE WONDERS OF LIFE ON EARTH—Editor of LIFE and Lincoln Barnett, adapted by Sarel Eimerl—*Golden Press*, 216 p., illus., \$4.95. Special edition for young readers of this colorful review of animal life and evolution.

WRITING GUIDE FOR CHEMISTS—Walter J. Gensler and Kinereth D. Gensler—*McGraw*, 149 p., \$4.50. Practical handbook.

• Science News Letter, 80:356 November 25, 1961

MEDICINE

Childhood Diseases Strike at a Younger Age

➤ CLOSER CONTACTS in modern living, even in rural areas, have resulted in children contracting measles, mumps and chickenpox at an earlier age.

A study of health records of 935 boys about 13 to 18 years of age at St. Mark's School, Southboro, Mass., has shown a general decline during the last few decades in susceptible youngsters entering school.

Most important to "get over with" is German measles for which there is no immediately anticipated vaccine as in the case of ordinary measles. This is especially dangerous during pregnancy when it can be harmful to the unborn child.

Drs. Frank L. Babbott, Bruce M. Rodenberger and Theodore H. Ingalls of the University of Pennsylvania, Philadelphia, report the study in the *Journal of the American Medical Association*, 178:542, 1961.

• Science News Letter, 80:358 November 25, 1961

MEDICINE

Agging Symptoms May Cause Deficient Thyroid

➤ AGING PATIENTS who appear senile may be suffering from deficient production of thyroid hormone (hypothyroidism).

In a study of 58 cases of hypothyroidism at the Oldham and District General Hospital, Oldham, Lancashire, England, researchers point out that results of treatment with a thyroid extract were good, although caution had to be taken in treating those with heart abnormalities.

The general practitioners who referred the aging patients to the hospital did not suspect thyroid deficiency in 90% of the cases. Most were sent as examples of heart failure, cerebral thrombosis, anemia or bronchitis, with a few labeled simply as "senile."

Treatment with L-thyroxine, a thyroid extract, might possibly have reduced or even prevented hardening of the arteries which afflicted many of the patients.

However, treatment should be carried out in a hospital or under the care of a medical attendant, Drs. W. H. Lloyd and I. J. L. Goldberg, now at the University College of the West Indies, Kingston, Jamaica, report in the *British Medical Journal* Nov. 11, 1961.

• Science News Letter, 80:358 November 25, 1961

Questions

ASTRONOMY—How close did the comet Seki come to earth? p. 351.

METEOROLOGY—How many typhoons were tracked by Tiros in the Pacific? p. 347.

Photographs: Cover and p. 347, Committee of Stainless Steel Producers; p. 349, University of Pennsylvania; p. 351, Bell Aerosystems Company; p. 360, Kingsway, Inc.