

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

THE ARCHAEOLOGICAL AND PALEONTOLOGICAL SALVAGE PROGRAM IN THE MISSOURI BASIN, 1950-1951—Paul L. Cooper—*Smithsonian*, Miscellaneous Collections, Volume 126, Number 2, 99 p., illus., paper, \$1.35. Only three of the hundreds of earth-lodge villages to be lost in the Oahe Reservoir had been at all extensively excavated by the end of 1951, but fortunately reconnaissance of a large number of reservoirs showed that a number of projects result in no archaeological loss.

THE BOOK OF MODERN PUZZLES—Gerald Lynton Kaufman—*Dover*, 2d rev. ed., 188 p., illus., cloth \$2.50, paper \$1.00. Word puzzles and puzzles involving logic.

CHILD DEVELOPMENT—Millie Almy—*Holt*, 490 p., illus., \$4.50. The principles of child development are here illustrated with accounts of actual child behavior drawn from the author's experience.

CO-ORDINATION OF GALACTIC RESEARCH—A. Blaauw, Ed.—*Cambridge University Press*, 59 p., \$1.50. Report of an international conference.

CRYPTOGRAPHY: The Science of Secret Writing—Laurence Dwight Smith—*Dover*, 164 p., illus., cloth \$2.50, paper \$1.00. Those who delight in puzzles can find much to ponder on here.

ELEMENTS OF PHYSICS: For Students of Science and Engineering—George Shortley and Dudley Williams—*Prentice-Hall*, 2d ed., 880 p., illus., \$10.60. An introductory text for the student who is taking a concurrent course in calculus.

ENEMY WAY MUSIC: A Study of Social and Esthetic Values as Seen in Navaho Music—Reports of the Rimrock Project Values Series No. 3—David P. McAllester—*Peabody Museum*, Papers, Vol. XLI, No. 3, 92 p., illus., paper, \$2.65. Exploring cultural values through an analysis of attitudes toward music as well as through an analysis of the music itself.

THE FACTS OF LIFE—C. D. Darlington—*Macmillan*, 467 p., illus., \$7.00. The intention of the author is to "show the immense possibilities which await the application of the elementary principles of heredity to the great problems of society."

FLOWER ARRANGEMENT WORKBOOK 3—Myra J. Brooks—*Barrows*, 64 p., illus., \$2.50. To help the hobbyist prepare to exhibit her work in flower shows.

FUNDAMENTAL FORMULAS OF PHYSICS—Donald H. Menzel, Ed.—*Prentice-Hall*, 765 p., \$13.50. Intended to fill the indicated need for a comprehensive reference book containing fundamental formulas not only of physics but of other special fields where physics touches on them.

THE GIFTED STUDENT AS FUTURE SCIENTIST: The High School Student and His Commitment to Science—Paul F. Brandwein—*Harcourt, Brace*, 107 p., \$2.00. Telling how to locate scientific talent among high school students and how to stimulate their development. Attention is given to the National Science Talent Search and the National Science Fair.

A GUIDE TO GARDENING WITH YOUNG PEOPLE—Richard R. Kinney—*Prentice-Hall*, 210 p., illus., \$3.25. Giving boys and girls their own gardening book and, incidentally, providing help to the rank beginner among suburban backyard gardeners.

THE HYPOPHYSAL GROWTH HORMONE, NATURE AND ACTIONS: International Symposium—Richmond W. Smith Jr., Oliver H. Gaebler and C. N. H. Long, Eds.—*McGraw-Hill*, 576 p., illus., \$12.00. Reporting a symposium attended by 300 scientists on this most elusive of the pituitary hormones.

INFANT CARE—Marion L. Faegre—*Govt. Printing Office*, rev. ed., 106 p., illus., paper, 15 cents. A new revised edition of this government best-seller.

INTRODUCTION TO PHYSICS—Frank M. Durbine—*Prentice-Hall*, 780 p., illus., \$9.00. Introductory college text. An attempt has been made to get around to the treatment of modern physics before the end of the spring semester looms in sight.

LEUKOCYTIC FUNCTIONS—Albert S. Gordon, John W. Rebeck, and Robert S. Speirs, Conference co-chairmen—*New York Academy of Sciences, Annals*, Volume 59, Art. 5, 405 p., illus., paper, \$4.50. Papers contributed to the conference.

MATHEMATICAL PUZZLES FOR BEGINNERS AND ENTHUSIASTS—Geoffrey Mott-Smith—*Dover*, 2d rev. ed., 248 p., illus., cloth \$2.50, paper \$1.00. Puzzles with solutions for the beginner with knowledge only of elementary arithmetic as well as the trained mathematician who likes brain teasers.

NAVAHO ACQUISITIVE VALUES: Reports of the Rimrock Project Values Series No. 5—Richard Hobson—*Peabody Museum*, Papers, Vol. XLII, No. 3, 34 p., paper, \$1.10. For a pastoral people, the Navahos have a surprising interest in making money and saving it and a terrible fear of being poor.

POINT LOBOS RESERVE: Interpretation of a Primitive Landscape—Aubrey Drury, Ed.—*Printing Division, California*, 96 p., illus., paper, \$1.00. A rocky promontory on the Pacific three miles south of Carmel, Calif., this point is an area of rare natural beauty and exceptional scientific interest.

THE PYRAMIDELLID MOLLUSKS OF THE PLIOCENE DEPOSITS OF NORTH ST. PETERSBURG, FLORIDA—Paul Bartsch—*Smithsonian*, Miscellaneous Collections, Volume 125, Number 2, 102 p., illus., paper, \$1.40. This fauna in Florida has been "almost completely neglected, owing evidently to the inconspicuous size of its members."

SEEDS OF LIFE: The Story of Sex in Nature from the Amoeba to Man—John Longdon-Davies—*Devin-Adair*, 172 p., \$3.00. A newspaper science writer presents this book on a topic of universal interest.

SIXTY-YEAR WEATHER FORECASTS—C. G. Abbot—*Smithsonian*, Miscellaneous Collections, Volume 128, Number 3, 22 p., illus., paper, 25 cents. The author is convinced that by employing cycles it is possible to make 60-year forecasts that give high correlations with events.

SOIL FREEZING—E. J. Yoder and others—*Highway Research Board*, Bulletin 100, 35 p., illus., paper, 60 cents. Reporting studies related to highway maintenance.

STEINMETZ: Maker of Lightning—Sigmund A. Lavine—*Dodd, Mead*, 241 p., illus., \$3.00. The biography of an inventive genius.

STRANGE CREATURES OF THE SEA—A. Hyatt

Verrill—*Page*, 233 p., illus., \$3.75. Curious facts about interesting creatures.

TRUANTS FROM LIFE: The Rehabilitation of Emotionally Disturbed Children—Bruno Bettelheim—*Free Press*, 511 p., illus., \$6.00. Another book about the Orthogenic School. This set of four case histories shows how this special school offers emotionally ill children the opportunity to build a normal life.

THE VIKING ROCKET STORY—Milton W. Rosen—*Harper*, 242 p., illus., \$3.75. The story of a series of research rockets as seen through the eyes and lives of the men responsible for their creation.

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## STATISTICS

### Population of U. S. Rapidly Growing Older

► THE UNITED States has one of the oldest populations of the world and we are rapidly growing older.

Our rapid change from a youthful nation to one with large numbers of the aged is revealed by figures published by the Population Reference Bureau, Inc.

The United Kingdom and some other northern European nations have even older populations. In the United Kingdom, 22% of the population are children under 15 while 16% are 60 years old or older. For the United States the figures are 27% children and 12% aged.

In colonial times, we had 40% under 15 and only four to six percent over 60.

Today, the countries with youthful populations are the underdeveloped countries in Asia, Africa and Latin America. There the proportions of children and aged are similar to those in the U. S. in colonial times.

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## Questions

ASTRONOMY—What is the greatest theoretical length for a solar eclipse? p. 346.

ENTOMOLOGY — Why is a cockroach so hardy? p. 347.

GEOPHYSICS—How can reliable radio propagation be accomplished over long distances? p. 339.

PSYCHIATRY—What is a "dry drunk?" p. 338.

MEDICINE—How is hypnotism used to treat burns? p. 351.

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