

Books of the Week

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MOTIVATION: Theory and Research—C. N. Cofer and M. H. Appley—Wiley, 958 p., illus., \$12.50. Offers a comprehensive, up-to-date review of the theoretical and experimental research literature on motivational psychology, examining the field of motivation in historical context and evaluating the major theories and positions in the field.

NEW WAYS IN PSYCHOANALYSIS—Karen Horney—Norton, 313 p., paper, \$1.55. Reprint (1939).

THE NEW WORLD OF COPPER—Edward B. Tracy—Dodd, 80 p., photographs, \$3. About locating and mining methods, alloys, wire and modern uses of copper, for young people.

NUCLEAR ENGINEERING FUNDAMENTALS—Roy Weinstein, Alvin Boltax and Giovanni Lanza—McGraw, 1,064 p., diagrams, \$20. Text covering principles and applications is divided into five parts—Atomic Physics, Nuclear Physics, Interaction of Radiation and Matter, Nuclear Materials, and Nuclear Reactor Theory; each part is also available separately for \$5 each.

THE NUMBER OF THINGS: Pythagoras, Geometry and Humming Strings—Evans G. Valens—Dutton, 189 p., diagrams, \$4.95. Concerned with things that can be described with numbers, ideas that gathered other ideas around themselves.

1001 QUESTIONS ANSWERED ABOUT SPACE—Clarke Newlon—Dodd, rev. ed., 356 p., illus., \$6. Expanded edition reflects the progress in the U.S. space program of the past two years.

PARASITOLOGY: The Biology of Animal Parasites—Elmer R. Noble and Glenn A. Noble—Lea & Febiger, 2nd ed., 724 p., illus., \$11. Thoroughly revised, written primarily for the advanced undergraduate student, emphasis is on the ecology and evolution of parasitism.

PEACOCK MANURE & MARIGOLDS: A "No-Poison" Guide to a Beautiful Garden—Janet Gillespie—Viking, 184 p., illus., \$3.95. A personable and practical book by a third-generation gardener in New Hampshire.

PHYSICAL FACTORS AND MODIFICATION OF RADIATION INJURY—L. D. Hamilton, Ed.—N. Y. Acad. of Sciences, Vol. 114, Art. 1, 716 p., illus., paper, \$12. Contributions range from paper on the correlation of radiation quality and biological effect to a discussion of the transplantation potential of hematopoietic tissue.

THE POPULATION CRISIS AND THE USE OF WORLD RESOURCES—Stuart Mudd, Ed.—Indiana Univ. Press, 563 p., diagrams, \$7.95. Realistic and objective investigation by eminent authorities of the dramatic changes in human ecology brought about by the world-wide application of scientific medicine and public health to the reduction of death rates without corresponding reduction of birth rates.

PREDICTION OF SUSCEPTIBILITY TO HYPNOSIS—Richard H. Dana and George W. Cooper, Jr.—Psychological Reports, 14 p., paper, \$1. Monograph Supplement 2-V14.

PREHISTORIC MAN IN THE NEW WORLD—Jesse D. Jennings and Edward Norbeck, Eds.—Univ. of Chicago Press, 633 p., illus., maps, \$10. Brings together in nontechnical language, fully annotated, the principal findings on the record of man's life in the Americas, written for both professional archeologists and lay readers.

PRIDE AND POWER: The Rationale of the Space Program—Vernon Van Dyke—Univ. of Ill. Press, 285 p., \$6.50. An analysis of the reasons, motives and goals behind the United States space program.

PRINCIPLES OF QUANTITATIVE GENETICS—Wharton B. Mather—Burgess, 152 p., paper, \$5.50. Summarizes the essential features of statistical, population and biometrical genetics as an integrated whole.

THE PROBLEM OF ANXIETY—Sigmund Freud, transl. from German by Henry Alden Bunker—Norton, 127 p., paper, \$1.25. Reprint (1936).

SALINE WATER CONVERSION REPORT FOR 1963—Office of Saline Water, Charles F. MacGowan, Dir.—GPO, 187 p., illus., paper, \$1.50. Information on the 1963 operations of the Department of the Interior regarding the desalting of sea water and brackish water.

SCIENCE AND THE FUTURE OF MANKIND—Hugo Boyko, Ed.—Indiana Univ. Press, 380 p., diagrams, \$6.95. This Volume I of the World Academy of Art and Science offers a collection of articles by foremost scientists and humanists exploring the vital problems of mankind in the face of increasing technological and scientific advancement.

SEX AND THE COLLEGE GIRL—Gael Greene, introd. by Max Lerner—Dial Press, 256 p., \$4.95. A journalistic report based on interviews with 614 students from 102 colleges and universities focusing on a new type of adolescent.

SPACE GROUPS AND THEIR REPRESENTATIONS—G. F. Koster—Academic Press, 84 p., diagrams, \$3.95. Reprinted from Vol. 5, 1957, Solid State Physics.

STELLAR INTERIORS—Donald H. Menzel, Prabhu Lal Bhatnagar and Hari K. Sen—Wiley, 317 p., \$12.50. Mathematical treatment, suitable as a textbook for courses dealing with the theory of the internal constitution of the stars, including basic information on atomic fusion and atomic building processes.

THE STRATEGY OF DISARMAMENT—Henry W. Forbes, introd. by Quincy Wright—Public Affairs Press, 158 p., \$3.75. A detailed discussion of methods of disarmament between the two World Wars and methods proposed since 1945.

YOUR GUIDE TO THE WEATHER—George L. Cantzlaar—Barnes & Noble, 242 p., illus., \$4.50; paper, \$1.50. Presents to the layman the essentials of modern meteorology with the help of many diagrams.

UNUSUAL FORMS AND ASPECTS OF CANCER IN MAN—N. Henry Moss, Ed.—N. Y. Acad. of Sciences, Vol. 114, Art. 2, 366 p., illus., paper, \$7.50. This monograph focuses attention on examples of malignant disease which are of clinical interest yet occur infrequently, such as radiation-induced cancer and site specific neoplasms.

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Special Award Winners

(Continued from p. 325)

THE NATIONAL COMMITTEE FOR CAREERS IN MEDICAL TECHNOLOGY gave a First Award of a certificate and a summer job with the American Registry of Pathology at the Armed Forces Institute of Pathology in Washington, D. C., plus up to \$100 for travel expenses, to Wilson Ayers Clark, Jr., 17, Grainger H.S., Kinston, N. C., for "Thalidomide Induced Teratogenic Differentiation in Chick Embryos." Alternate to the First Award was Nancy Lee Williamson, 17, Bryan, Ohio. Honorable mention citations went to: Rhea Louise Keller, 18, New Haven, Ind., and Donna Lee Rehkop, 17, Berwick, Pa.

THE NATIONAL PEST CONTROL ASSOCIATION gave a certificate and \$100 for science materials and experimentation in biology to Darrell Addison Posey, 17, Henderson County H.S., Henderson, Ky., for "The Fascinating World of the Ant."

THE NATIONAL TELEMETERING CONFERENCE awarded a certificate and a trip for himself and his sponsor to exhibit at the annual conference to John Scott Winterle, 17, Leon H.S., Tallahassee, Fla., for "Multi-Channel Optical Communications." Charles W. Buenzli, Jr., 17, East Stroudsburg, Pa., was named as alternate.

THE OPTICAL SOCIETY OF AMERICA presented a First Award of \$100 for materials, equipment, or books to Dennis Lee Schatz, 17, George Washington H.S., Denver, Colo., for "Determining the Velocity of Light." The second award of \$75 went to Richard E. Albrecht, 18, Parkersburg, W. Va.

THE SOCIETY OF WOMEN ENGINEERS presented a \$100 U.S. Savings Bond to Janice Dinegar, 17, Los Alamos H.S., Los Alamos, N. Mex., for her project "Quantization of Direction in a Magnetic Field—The Stern-Gerlach Experiment."

THE U. S. ATOMIC ENERGY COMMISSION gave certificates and trips to Argonne National Laboratory to Charles R. Bokesch, 17, Frederick H.S., Frederick, Md., for "Bacterial Protection Against Radiation"; David E. Brown, 17, Menlo-Atherton H.S., Atherton, Calif., for "Biochemistry of Cholesterol: Role of Cholesterol in the Biosynthesis of Ergosterol in *Neurospora*"; Eric Miles Dulberg, 16, Benjamin Franklin Sr. H.S., New Orleans, La., for "The Universe of Subatomic Structure"; Joan Marie Keene, 17, Bethlehem H.S., Bardstown, Ky., for "Germ-Free Chicken Experimentation"; Amory Bloch Lovins, 16, Amherst Regional H.S., Amherst, Mass., for "A New Nuclear Magnetic Interaction"; Eileen M. O'Brien, 17, New Dorp H.S., Staten Island, N. Y., for "Effects of RNA and DNA Nucleosides on Growth, Morphology and Biochemistry of Irradiated *E. coli*"; Jonathan R. Pawlik, 17, Dearborn H.S., Dearborn, Mich., for "Atomic Transmutation"; John F. Schultz, Jr., 15, Burges H.S., El Paso, Texas, for "Spark Chamber Construction and Operation"; Gerald A. Serwer, 17, Harding H.S., Oklahoma City, Okla., for "Effects of Radiation on the Electrocardiographic Development of the Chick Embryo Heart"; Eileen Thompson, 18, Ottawa Hills H.S., Grand Rapids, Mich., for "Effect of Serotonin Against Gamma Radiation." Each winner will designate a teacher who also will be honored with an expenses paid trip. Alternates were Frederick R. Aronson, 18, Hillsdale, N. J.; Thomas Abbott Girard, 16, Monterey, Calif.; John J. Keller, 17, Hampton, Va.; Richard Evans Koehler, 17, West Lafayette, Ind.; Cheryl Ann Kogele, 16, Circle, Mont.; Paul Lawrence Modrich, 17, Raton, N. Mex.; June Sheryl Moore, 16, Americus, Ga.; Joe Alexander Sigman, 17, Dyersburg, Tenn.; Joyce Elaine Solomon, 17, Columbia, S. C.; James Daniel Ware, 18, New Albany, Ind.

(Continued on p. 334)

Handbook of WATCH AND CLOCK REPAIRS

By H. G. Harris

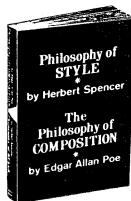
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