

Books of the Week

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ARMS CONTROL AND THE ATLANTIC ALLIANCE: Europe Faces Coming Policy Decisions—Karl W. Deutsch—Wiley, 167 p., \$5.95. Condensed survey of findings of a scholarly study by a group of political scientists, with emphasis on France and Germany. The evidence examined included opinion surveys of elite groups, mass opinion surveys, content analysis of major newspapers, quantitative data, historic and diplomatic records.

THE AUTOMATED STATE: Computer Systems as a New Force in Society—Robert McBride—Chilton Bks., 407 p., \$12.50. A thorough journalistic inquiry into the social and economic impact of large computer systems on questions dealing with the larger issues of society, on the people themselves, their jobs, businesses and personal lives.

CONTRACTING FOR ATOMS—Harold Orans—Brookings, 242 p., \$6. A study of public policy issues posed by the Atomic Energy Commission's contracting for research, development and managerial services.

DICTIONARY OF ALASKA PLACE NAMES—Donald J. Orth—Geological Survey (GPO), 1,084 p., illus., 12 maps in color, \$8.50. Includes section on origins and sources of names, glossary, transliteration system for Russian, and Russian generic terms.

EXTINCT AND VANISHING ANIMALS: A Biology of Extinction and Survival—Vinzenz Ziswiler, transl. from German and revised by Fred and Pille Bunnell—Springer-Verlag, N.Y., 133 p., illus., \$3.40. Reviews the progressive destruction of animal species and the ways at man's disposal to halt such extinction. Includes lists of extinct and of threatened animals throughout the world.

THE FOUNDATION DIRECTORY—Foundation Library Center, Marianna O. Lewis, Ed.; analytical introd. by F. Emerson Andrews—Russell Sage Foundation, 3rd ed., 1,198 p., charts, \$12. Comprehensive, descriptive listing of 6,803 foundations with assets totaling some \$20 billion. Grouped by states, indexed by fields of interest, persons and foundations.

THE FOX AND THE HOUND—Daniel P. Mannix—Dutton, 255 p., illus. by John Schoenherr, \$4.95. A suspenseful animal story, portraying two skilled antagonists, a half-bred bloodhound and a red fox.

HOME OWNER'S GUIDE TO GAS HEAT: The Proper Use and Maintenance of the Gas-Fired Unit in the Cellar or Utility Room—A. B. L. Gasman—William-Frederick Press, 38 p., paper, \$2. Expert information about safety features, the thermostat, distribution, heat troubles and other aspects of maintenance.

INSTINCT AND INTELLIGENCE: Behavior of Animals and Man—S. A. Barnett—Prentice-Hall, 224 p., photographs, drawings by Stanley Wyatt, \$6.95. Discusses the senses of animals, their ways of communication, social habits, responses to stress, and sources of human behavior.

THE LANGUAGE OF LIFE: An Introduction to the Science of Genetics—George and Muriel Beadle—Doubleday, 255 p., diagrams, paper, \$1.45. Reprint (1966), gives a clear and readable description of modern genetics.

MEN AND IDEAS IN ENGINEERING: Twelve Histories from Illinois—R. A. Kingery, R. D. Berg and E. H. Schillinger—Univ. of Ill. Press, 164 p., photographs, diagrams, \$5. Narratives of creative engineering efforts, from the development of sound-on-film movies, through log-spiral antennas to electric vacuum gyros.

MILKWEED—Millicent E. Selsam—Morrow, 48 p., photographs by Jerome Wexler, \$3.95. Excellent close-ups combined with informative text introduce children to the principles of plant growth.

MOLECULAR AND CELL BIOLOGY—Bruce H. Carpenter, Ed.—Dickenson Pub. Co., 158 p.,

illus., paper, \$2.60. Selection of articles illustrating some of the progress over the past fifteen years in the study of the DNA molecule, the functions of RNA, and the chloroplast.

PARTICLES AND ACCELERATORS—Robert Gouran, transl. by W. F. G. Crozier—McGraw-Hill, 256 p., photographs, diagrams, \$4.95; paper, \$2.45. Intended to introduce the general reader to the main ideas of high energy physics, the author describes the search for particles and the concepts about the nature of matter derived from their analysis.

PATTERNS OF NATURE—Jeffrey J. W. Baker—Doubleday, 64 p., color photographs by Jaroslav Salek, \$3.95. A beautiful and sensitive introduction to the interdependence of natural environments, for the young.

PERSIA II—Vladimir G. Lukonin, transl. from Russian by James Hogarth—World Pub. Co., 233 p., 217 illus. (76 in color), maps, \$10. Covers Hellenistic and Parthian art, early and late Sasanian, demonstrating with the help of typical examples how the archaeologist becomes a historian.

POPULATION AND ENVIRONMENTAL BIOLOGY—Arthur S. Boughey, Ed.—Dickenson Pub. Co., 108 p., diagrams, paper, \$2.60. Collection of contemporary key papers in the fields of taxonomy, systematics, genecology and evolution, and ecology.

PROBLEMS IN ELECTRONICS WITH SOLUTIONS—F. A. Benson—Spon Ltd. (Barnes & Noble) 4th rev. ed., 307 p., diagrams, \$8; paper, \$4.25. Contains 349 problems including new ones dealing with transistor circuits, noise, gas discharge, oscillators and dielectrics.

RACE AND RACISM: A Comparative Perspective—Pierre L. van den Bergh—Wiley, 169 p., \$4.95. A critique of dominant trends in the study of race relations, with author's analytical comparison of four complex societies—Mexico, Brazil, the United States and South Africa.

SEX BEFORE TWENTY: New Answers for Youth—Helen F. Southard, foreword by Mary S. Calderone, M.D.—Dutton, 121 p., \$3.50. A frank discussion of the facts of sex, dating, men and women, and of the process of learning how to develop full sexual maturity.

SOCIETY'S CHILDREN: A Study of Resentment in the Secondary School—Carl Nordstrom, Edgar Z. Friedenberg and Hilary A. Gold—Random House, 209 p., paper, \$2.45. An investigation of the effects that different schools have on influencing and redirecting feelings of resentment in students.

SOURCE BOOK IN GEOLOGY, 1900-1950—Kirtley F. Mather, Ed.—Harvard Univ. Press, 435 p., diagrams, \$12.50. Collection of representative contributions to geological science, arranged in chronological order of the dates of birth of their authors.

SPACE FLIGHT MECHANICS SPECIALIST SYMPOSIUM: AAS Science and Technology Series, Vol. 11—Maurice L. Anthony, Ed.—AAS Pubs. Office, 597 p., diagrams, \$17.25. Papers concerning satellite orbit prediction, motion of three and more bodies, trajectory optimization and interplanetary space missions.

SPACE FRONTIER—Wernher von Braun—Holt, 216 p., illus., \$4.95. Updated collection of articles originally written for Popular Science magazine, explains to the general reader the technicalities of launch and ascent, safety in space, flight to the moon, to Mars and beyond.

SPECTROSCOPY, Vol. 2: Ultra-violet, Visible, Infra-red and Raman Spectroscopy—S. Walker and H. Straw—Chapman & Hall (Barnes & Noble), 412 p., illus., \$12.50; paper, \$6.75. Reprint (1962), also considers instrumentation, molecular quantum numbers, flames, fluorescence and phosphorescence, force constants, and application to astrophysics.

THE STORY OF ELECTRICITY AND MAGNETISM—Bernard Seeman—Harvey House, 123 p., illus. by James Barry, \$3.95. For boys and girls.

TAIWAN ABORIGINES: A Genetic Study of Tribal Variations—Chen Kang Chai—Harvard Univ. Press, 238 p., illus., \$9. Studies the effect of isolation on the evolutionary process through an examination of genetic variations built up among nine isolated aboriginal tribes. Discusses the agreement or lack of agreement between polygenic and polymorphic traits in human population groups with very little outside contact.

THE TEMPLATE GENETIC THEORY OF FORMATION OF ANTIBODIES—P. F. Zdrovskii, transl. from Russian—CFSTI (TI67-60806), 44 p., diagrams, paper, \$3. Critical analysis and evaluation of the three theories of antibody formation—the "instructive" theory of the indirect template, the clonal selection theory and the molecular genetic theory.

TIME CAPSULE/1923: A History of the Year Condensed from the Pages of Time—John Dille, Ed.—Time-Life Bks., 232 p., illus., paper, \$1.65. Offers a fascinating retrospective glimpse of the year's events and personalities as they were reported by Time magazine in 1923. In the same series also available are the years 1929, 1941 and 1950, at \$1.65 each.

TRANSMISSION OF VIRUSES BY THE WATER ROUTE—Gerald Berg, Ed.—Interscience, 484 p., illus., \$15. Symposium papers and discussion dealing with epidemiology aspects, quantitative recovery of viruses from dilute suspensions, the minimal infective dose, and survival of viruses in waste and waste water.

THE URGENT FUTURE: People, Housing, City, Region—Albert Mayer—McGraw-Hill, 184 p., photographs, plans, maps, \$16.50. An architect and environmental planner, the author offers a reasoned and illustrated plea for better community and urban planning now.

THE WIND AND BEYOND: Theodore von Karman—Pioneer in Aviation and Pathfinder in Space—Theodore von Karman with Lee Edson—Little, Brown, 376 p., plates, \$10. Posthumously finished autobiography of the Hungarian-born scientist whose work in aerodynamics and rocketry has been of ground-breaking significance.

ZOOSES OF PRIMATES: The Epidemiology and Ecology of Simian Diseases in Relation to Man—Richard Fienness—Cornell Univ. Press, 190 p., map, \$6.50. Pathologist discusses the known diseases of primates that can be transmitted to man by way of parasites, bacteria and viruses.

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