

books OF THE WEEK

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ANIMAL COMMUNICATION: Techniques of Study and Results of Research—Thomas A. Sebeok, Ed.—Indiana Univ. Press, 1968, 686 p., illus., \$20. Contains 24 original articles ranging from a review of the various systems of animal communication to communication in selected species of animals and the practical uses and implications of these studies for related fields of study.

AUTOMOTIVE SMOG CONTROL MANUAL—Harold T. Glenn—Cowles Education Corp., 1968, 147 p., illus., \$6.95. Practical guide to the installation of automotive anti-pollution devices in domestic and foreign cars, discusses oscilloscopes and techniques for tuning and precision tuning.

BETWEEN PACIFIC TIDES—Edward F. Ricketts and Jack Calvin, rev. by Joel W. Hedgpeth—Stanford Univ. Press, 1968, 4th ed., 614 p., 302 illus., 8 p. in color, \$10. Completely revised and expanded edition of one of the classic works of marine biology, gives detailed account of the habits and habitats of the animals that live in the rocky shores and tide pools of the Pacific Coast.

BORN IN THE ZOO—Jürg Klages, text and captions by Heini Hediger, transl. from German by Gwynne Vevers—Viking Press, 1968, unpagged, photographs by J. Klages, \$8.95. Great collection of pictures taken in the zoos of Europe, depicting zoo babies of a wide variety of species.

CHANGING THE FAMILY—Warren M. Brodey, M.D.—Potter, C. N., 1968, 160 p., \$6. Describes many styles of families, and stresses the interacting and interconnected relationships that often are the determining ingredients of family life by which the individual's response to life in general are greatly influenced.

COLLECTED WORKS OF COUNT RUMFORD, Vol. I: The Nature of Heat—Sanborn C. Brown, Ed.—Harvard Univ. Press, 1968, 507 p., illus., \$10. In this first of five volumes of Count Rumford's papers rearranged by subject, is his work on the propagation of heat in fluids, an inquiry concerning the weight ascribed to heat, and other topics related to heat.

COMPUTER-AIDED INTEGRATED CIRCUIT DESIGN—Gerald J. Herskowitz, Ed.—McGraw-Hill, 1968, 432 p., diagrams, \$15. Designed to provide guidance in modeling procedures, in relating network and system computer techniques, and applications of modeling and computer techniques in specific integrated circuit designs.

EDUCATORS GUIDE TO FREE SCIENCE MATERIALS—Mary Horkheimer Saterstrom, Ed., John W. Renner, Consultant—Educators' Progress Service, 9th ed., 1968, 372 p., paper, \$8.25. Lists annotated titles of 1,162 free films, 84 film-

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THE MEDICATED SOCIETY—Samuel Proger, Ed.—Macmillan, 1968, 274 p., \$6.95. Presents the pros and cons of the wide choice of prescription drugs available today, evaluates the kind and degree of benefits we may expect to reap from the valid use of drugs, and the dangers we face as a consequence of their misuse.

MEN AND MACHINES: Ten Stories of Science Fiction—Robert Silverberg, Ed.—Meredith Press, 1968, 240 p., \$4.95. Fictional excursions into the fantastic world of man-machine relationships.

MESMERISM and the End of the Enlightenment in France—Robert Darnton—Harvard Univ. Press, 1968, 218 p., illus., \$5.95. A scholarly examination of the mentality of literate Frenchmen in the 1870's who saw in mesmerism a serious explanation of the forces of nature.

THE PERSON IN THE WOMB—N. J. Berrill—Dodd, 1968, 179 p., \$5. Written from the point of view of the biologist and humanitarian, the book lucidly describes the human development from conception to birth, and addresses itself also to the issues of birth control.

A PORTRAIT OF ISAAC NEWTON—Frank E. Manuel—Harvard Univ. Press, 1968, 478 p., 18 plates, \$11.95. A portrait of Newton the man, his youth in Lincolshire, his years as cloistered scholar at Trinity College, and as the autocrat of science in the sophisticated society of London.

PRACTICAL SERVOMECHANISM DESIGN—Henry S. Baeck—McGraw-Hill, 1968, 380 p., illus., \$15. For practicing engineers interested in feedback control systems, explains step-by-step procedures for integrating the theory of automatic feedback control with the selection of the actual hardware to design complete servo systems.

PRINCIPLES OF GROUP TREATMENT—Eric Berne—Grove Press, 1968, 379 p., paper, \$2.95. Reprint (1966) of systematic treatise on the use of transactional analysis.

REFLECTIONS ON BIG SCIENCE—Alvin M. Weinberg—M.I.T. Press, 1968, 182 p., paper, \$1.95. Reprint (1967) of essays reflecting concern with the activity and organization of science and its effects on institutions and human values.

RELATIVITY THEORY: Its Origins and Impact on Modern Thought—L. Pearce Williams, Ed.—Wiley, 1968, 159 p., \$6.95; paper, \$2.95. Intended as reading material in a college survey course on major issues in history, deals with the origins and nature of the Special Theory of Relativity, the scientific reaction to Einstein, and the lay reaction.

REPAIRING SMALL ELECTRICAL APPLIANCES—Robert Hertzberg—Arco, 1968, 111 p., photographs, diagrams, \$3.50. Clearly written and profusely illustrated handbook shows how to repair with common tools such appliances as electric irons, blenders and table lamps.

SCIENCE POLICY AND THE UNIVERSITY—Harold Orlans, Ed.—Brookings Institution, 1968, 352 p., \$7.50; paper, \$2.95. Deals with the issues of federal money and academic science, allocation of federal funds among scientific fields, presenting budgets to Congress and equipping Congress to deal with science.

SCIENTISTS IN POLITICS: The Atomic Scientists Movement, 1945-46—Donald A. Strickland—Purdue Univ. Press, 1968, 149 p., \$4.95. This study of the American scientists' first response to the use of atomic weapons, based on published sources, records, papers and personal interviews, emphasizes factionalism, conflict and apprehension.

SELECTED PAPERS ON THE PATHOGENIC RICKETTSIAE—Nicholas Hahon, Ed.—Harvard Univ. Press, 1968, 369 p., illus., \$12. Collection of original papers on microorganisms known as rickettsiae and the diseases they produce, chronologically arranged, they span the period from earliest clinical description in the sixteenth century to modern times.

TEACHING ELEMENTARY SCIENCE: The Teacher's Guide to Effective Classroom Activities—Rita Langley—Parker Pub. Co., 1968, 276 p., illus., \$8.95. Explains some 300 science activities, discusses the concepts each one demonstrates, and gives step-by-step instruction of experiments.

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THEORY OF WAVEGUIDES AND CAVITY RESONATORS—Emile Argence and Theo Kahan, transl. from French—Hart Pub. Co., 1968, 426 p., diagrams, \$15. Of interest to physicists, telecommunication engineers and specialists in space research, the book deals with the general theory of electromagnetic waveguides and cavities, and the mathematical methods used in their applications.

THREE-DIMENSIONAL FLOW OF IDEAL GASES AROUND SMOOTH BODIES—K. I. Babenko and others, transl. from Russian—IPST (Daniel Davey), 1968, 507 p., diagrams, \$14. Describes method of calculation, calculation results, and presents tables of axisymmetric and three-dimensional conical flow, and tables of gas-dynamic functions obtained by interpolation.

TRANSIENTS IN PULSED SEMICONDUCTOR DIODES—Yu. A. Tikhonik, transl. from Russian by Y. Shechtman, I. Meroz, Ed.—IPST (Daniel Davey), 1968, 142 p., diagrams, \$7.50. A review and analysis of papers published on diode transients, the forward transient, decay of non-equilibrium carriers, diode equivalent circuits, and applications of transients.

ULTRASTRUCTURE OF FERTILIZATION: Biology Studies—C. R. Austin—Holt, 1968, 196 p., microphotographs, drawings, \$5.95. Summarizes for the mature student the current status of research on the fine structure of gametes and of fertilization, and provides the biologically oriented electron microscopist with procedural data helpful in evaluating the specific investigations cited.

VARIETIES OF POLICE BEHAVIOR: The Management of Law and Order in Eight Communities—James Q. Wilson—Harvard Univ. Press, 1968, 309 p., \$6.50. Study describes the patrolman and the problems he faces arising out of constraints imposed by law, politics, public opinion and the expectations of superiors.

WEATHER MODIFICATION AND THE LAW—Howard J. Taubenfeld, Ed.—Oceana Pubns., 1968, 228 p., illus., \$7.50. Summarizes the state of the art of weather modification, government projects and commercial activities, and discusses the legal implications, special problems of liability, and proposals for federal control.

WORLD HEALTH—Fraser Brockington—Little, Brown, 1968, 2nd ed., 373 p., \$14. Presents the historical, organizational and practical background to the world public health approach to some essential social problems of our time.

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