

films OF THE WEEK

IN TIME OF EMERGENCY. 16mm, color, sound, 26 min. Highlights basic life-saving information every American needs to prepare for the possibility of nuclear attack—facts about fallout, types of public and private shelters, how to improvise fallout protection, attack warning, emergency supplies, reducing the fire hazard, and actions to take if caught in the open. Audience: general. Purchase \$81.50 from National Audio Visual Center, Dept. SN, National Archives and Records Service, Washington, D.C. 20409.

FLORIDA SEAFARE. 16mm, color, sound, 27 min. Filmed in various parts of Florida, including Key West, Cape Kennedy, Panama City and Appalachicola, showing commercial fishing activities in Florida. Methods of capture, processing, cooking and serving are described for: lobster, shrimp, calico scallop, oyster, stone and blue crab, Spanish mackerel, pompano, snapper and grouper. Also shown are new commercial fishing and fishery research methods, such as aquaculture and the use of underwater television techniques. Loan information from Audio-Visual Services, Dept. SN, National Marine Fisheries Service, 1815 N. Fort Myer Dr., Room 601, Arlington, Va. 22209.

ORBITAL MECHANICS. Six films, color, sound, from 9 to 13 min. each. Titles include: "Principles of Orbit," describing the behavior of a satellite both in circular and elliptical orbit; "Energy in Orbit," showing the meanings of potential and kinetic energy and the ways in which these forces affect a satellite's orbit; "Orbital Shapes and Paths," showing how one places a satellite in a particular orbit to do a particular job; "Rendezvous," involving the basic physical laws applied to bring two orbiting spacecraft to a meeting in space; "Over the Hill to the Moon," dramatizing the problem of sending a spaceship to the moon; and "Flight to the Planets," using concepts and principles taught in previous films to cover the principles of flight to the planets Mars and Venus. Audience: junior high, high school. Purchase \$150 each or \$750 for six, rental \$15 each or \$70 for six from Time-Life Films, Dept. SN, 43 West 16th St., New York, N.Y. 10011.

SMOKING: PETE ENNIS DOESN'T SMOKE YET. 16mm, color, sound, 10 min. The various pressures (social and emotional) which may influence an individual's decision on whether or not to smoke are explored. Using alternate scenes of a discussion group and Pete with his friends, the question of smoking is examined in an open-ended, no "sermons" manner, recognizing that the final decision rests with the individual. The medical aspects of smoking, showing that it is harder to stop the longer one smokes, are also mentioned. Audience: teenagers, parents. Purchase \$145 or rental \$14.50 from Contemporary/McGraw-Hill Films, Dept. SN, 330 W. 42nd St., New York, N.Y. 10036.

AUDIO AMPLIFIERS. 16mm, b&w, sound, 28 min. Shows how a schematic diagram of a single-ended audio amplifier is drawn. Demonstrates three methods of connecting audio amplifiers in cascade. Based on some symptoms of malfunctions, gives a list of possible troubles, with an analysis of how to locate the trouble. Explains why phase inversion occurs in a grounded cathode amplifier. Points out how the amount of bias will affect gain and fidelity in an audio amplifier circuit. Audience: technical. Purchase \$48.75 from National Audiovisual Center, Dept. SN, National Archives and Records Service, Washington, D.C. 20409 (Produced by U.S. Air Force).

Listing is for readers' information of new 16mm and 8mm films on science, engineering, medicine and agriculture for professional, student and general audiences. For further information on purchase, rental or free loan, write to distributor.

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books OF THE WEEK

ANIMAL MOVERS: A Collection of Ecological Surprises—George Laycock—Natural Hist. Press, 1971, 107 p., photographs, \$4.50. Tells about the consequences of transfer to new lands of such animals as squirrels, pheasants, mosquitoes, muskrats, mongooses and snails.

AQUATIC CHEMISTRY: An Introduction Emphasizing Chemical Equilibria in Natural Waters—Werner Stumm and James J. Morgan—Wiley-Interscience, 1970, 583 p., diagrams, \$24.95. Addressed to limnologists, oceanographers, geochemists, ecologists and environmental and sanitary engineers.

THE BEHAVIOUR OF NEMATODES: Their Activity, Senses and Responses—Neil A. Croll—St. Martin's, 1971, 117 p., plates, drawings, \$8.25. Monograph deals with the movement, activity, swarming, responses to light, temperature and chemicals, responses to gravity and mechanical stimuli, and the mechanism of orientation in nematodes.

BIOETHICS: Bridge to the Future—Van Rensselaer Potter—Prentice-Hall, 1971, 205 p., \$5.95. On the interwoven themes of human progress, the obligation to the future, control of technology, the optimum environment, and biocybernetics—the science of feedback relations between the living and nonliving components of the ecological system.

IMITATION IN CHILDREN—Paul Guillaume, transl. from French by Elaine P. Halperin; foreword by Bernard Kaplan—Univ. of Chicago Press, 1971, 214 p., \$7.95. Presents a theory on the role of imitation in the learning of children from birth to the third year; shows the evolution of the child's concept of the world and himself by analyzing progressive stages in the development of language and movement.

KNOTS—R. D. Laing—Pantheon Bks., 1970, 89 p., \$3.95. Brief, poignant, poem-like encounters concerned with essential disturbances in human communication. (SN 4/15/71, p. 335).

MICRO-ORGANISMS: Function, Form and Environment—Lilian E. Hawker and Alan H. Linton, Eds.—Am. Elsevier Pub. Co., 1971, 727 p., illus., \$16.95. Addressing student and research worker, the book surveys the entire field of microbiology, from macromolecules, biosynthesis and genetics to the microbiology of air, water and soil, and the industrial uses of microorganisms.

MILESTONES IN DEVELOPMENTAL PHYSIOLOGY OF INSECTS—Dietrich Bodenstein, Ed.—Appleton-Century-Crofts, 1971, 231 p., illus., tables, \$18.75. Papers on important research in chemical genetics and insect endocrinology, topics range from action of pleiotropic gene in the flour moth to induction of pupa in silkworm by transplanting the prothoracic gland.

THE MIND OF MAN—Nigel Calder—Viking Press, 1971, 288 p., photographs, drawings, diagrams, \$8.95. Acquaints the general reader with important brain research and experiments going on in the world's laboratories, from New Delhi to New Haven, from primate research of the emotions to brain chemistry and organization of neurons, from human linguistic competence to machine intelligence.

THE PATENT OFFICE—Stacy V. Jones—Praeger Pubs., 1971, 234 p., illus., \$8.50. Gives prospective careerist and general reader an expert view of the U.S. Patent Office's history, organization and operations, discusses international practices, alternatives open to inventors, and controversies.

PEYOTE—Alice Marriott and Carol K. Rachlin—Crowell, 1971, 111 p., \$6.95. Anthropologists trace the evolution of the peyote religion, from its beginnings as a healing plant to the ceremonies and rituals of symbolic significance.

A PORTFOLIO OF NEW ZEALAND BIRDS—Bruce Harvey—Tuttle, 1971, 40 p., 30 color plates, 40 drawings, \$17.50. Handsome, folio-size presentation of paintings and description of 25 species of New Zealand birds, from the Northern Blue Penguin to Bellbird and Saddleback.

PROBABILITY AND STATISTICS—L. Daniel Massey—McGraw-Hill, 1971, 180 p., diagrams, \$11.50. Directed at the practicing engineer, covers combinatorial and continuous probability, models, stochastic systems, Markov processes, sampling theory, hypothesis testing and inference.

RADIO-ELECTRONICS HOBBY PROJECTS—Eds. of Radio-Electronics Magazine—TAB Bks., 1971, 192 p., illus., \$6.95; paper, \$3.95. An assortment of 32 electronic projects of practical value, from multiplex tuners and adapters to automatic windshield-wiper pause-controller.

THE SEA: Ideas and Observations on Progress in the Study of the Seas, Vol. 4: New Concepts of Sea Floor Evolution, Part I: General Observations. Part II: Regional Observations, Concepts—Arthur E. Maxwell, Ed.—Wiley-Interscience, 1971, 791 p., illus., \$32.50 each. Comprehensive coverage of the earth beneath the sea, incorporates the great advances in marine geology and geophysics since publication of the first three volumes edited by the late Maurice Hill.

SOFTBILLED BIRDS—Clive Roots—Arco, 1971, 158 p., color plates, drawings, \$5.95. About acquisition, housing, acclimatization, proven diets and care of softbills, with brief review of the different families of softbill birds.

SPACE STATIONS: Vol. 27, Advances in the Astronautical Sciences—L. Larmore and R. L. Gervais, Eds.—AAS Pubs., 1971, 591 p., illus., \$18.75. Summarizes feasibility studies and activities in NASA's space station program, international cooperation in manned space flight, and safety experience and planning.

TOGETHER WITH THE AINU: A Vanishing People—M. Inez Hilger with Chiye Sano and Midori Yamaha—Univ. of Okla. Press, 1971, 223 p., photographs, map, \$9.95. Ethnographic study, tells of the remnant of Ainu culture in a matrix of Japanese culture, based on notes and tape recordings during field work among the Ainu of Hokkaido in 1965-66.

TOYS THAT DON'T CARE—Edward M. Swartz—Gambit, 1971, 289 p., 62 photographs, \$6.95. Both lawyer and father, the author made a study of toys currently manufactured, advertised and sold, and points out their potential hazard to young children.

TRANSPORT THROUGH THE AGES—Peter Bray, Ed.—Taplinger, 1971, 128 p., 400 line drawings by Barbara Brown, \$6.95. Brief chronological introduction, and illustrations with captions review the history of man's means of transportation from the skin sledge to the space capsule.

THE USES OF TALENT—Dael Wolfe—Princeton Univ. Press, 1971, 204 p., diagrams, \$6.50. Analysis of quantitative data on potential talent, the development of specialists and professionals, the changing demands for college graduates, mobility as a means of adjustment, and lost talent.

WATER 1970—Chemical Engineering Progress Symposium, Lawrence K. Cecil, Ed.—Am. Institute of Chemical Engineers, 1971, 610 p., illus., paper, \$15. Papers report on the results of studies and efforts made toward the control of pollution in the aqueous environment.

THE WITHERING RAIN: America's Herbicidal Folly—Thomas Whiteside—Dutton, 1971, 224 p., \$5.95. The story of the military use of the hazardous chemical, 2,4,5-T, and its defoliating effect in Vietnam. Included in appendices are official statements and laboratory reports.

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