

## films OF THE WEEK

**INSIDE A TRANSISTOR.** 16mm, b&w, sound, 28 min. A model and an actual triode are used to explain how a vacuum tube amplifies. Ball bearings rolling down a special ramp show how electrons move through a conductor and semiconductor. Lamps in a checker model of atoms illustrate movement of "holes" in semiconductors. Transistors' low current consumption is dramatized by running an amplifier with a saltwater battery. Transistors are found in a portable TV, in a tiny radio, and a 1.5 inch disk (examined under a microscope) containing 200 circuits. Audience: upper elementary and junior high. Purchase \$130 from Prism Productions, 220 E. 23rd St., New York, N.Y. 10010. (Part of Inquiries in Science series with Mr. Wizard.)

Circle No. 122 on Reader Service Card

**INVOLUNTARY HOSPITALIZATION OF THE PSYCHIATRIC PATIENT: SHOULD IT BE ABOLISHED? T-1748.** 16mm (TV film recording), b&w, sound, 29 min. Provides the medical profession with divergent points of view of experts. Features Jules H. Masserman, M.D., Professor of Neurology and Psychiatry, Co-chairman of Psychiatry, Northwestern Medical School, and Thomas S. Szasz, M.D., Professor of Psychiatry, State University of New York, Upstate Medical Center. Dr. Masserman contends that there are certain clinical situations in which an individual must be hospitalized for psychiatric reasons against his will, while Dr. Szasz contends that psychiatry must be practiced on a purely contractual basis with the patient. Audience: medical. Free loan from National Medical Audio-visual Center (Annex), Station K, Atlanta, Ga. 30324 or purchase from General Services Administration, National Archives and Records Services, Washington, D.C. 20209, Attn: Government Film Sales.

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**THE RESEARCH ENVIRONMENT IN INDUSTRY.** 16mm, color, sound, 49 min. Scientists in non-profit fields entertain certain questions, even occasionally prejudices, about business-supported research. These questions reflect themselves in reservations by graduate Ph.D.'s concerning the acceptance of research positions in industrially sponsored laboratories. To explore such questions in an atmosphere of full and candid inquiry, a nationally known company whose activities are founded on research (the Upjohn Co., pharmaceutical manufacturers) invited a recognized university scientist to conduct a series of interviews with men engaged in research in their laboratories. Questions asked included those such as "How can a scientist do honest research in a business environment?" Audience: industrial scientists, university scientists, college students. Free loan to industrial laboratories from Purpose Film Center, 2625 Temple St., Los Angeles, Calif. 90026.

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*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 or circle the appropriate number on the Reader Service Card.*

## books OF THE WEEK

**A FARAWAY COUNTRY:** The Continuing Story of Project Concern—James W. Turpin with Al Hirschberg—World Pub. Co., 1970, 228 p., photographs, \$6.95. Tells about an effective and efficient medical organization with mobile and floating clinics in poverty-stricken places ranging from Appalachia to Hong Kong.

**HANDBOOK OF EMERGENCY TOXICOLOGY:** A Guide for the Identification, Diagnosis and Treatment of Poisoning—Sidney Kaye—Thomas, C. C., 1970, 3rd ed., 514 p., illus., \$22. Discusses symptoms, lethal doses, antidotes and analysis, followed by alphabetical listing and discussion of poisons, their symptoms, identification and treatment.

**INTRODUCTION TO THE STUDY OF BIOLOGICAL MEMBRANES—**Marcelino Cereijido and Catalina A. Rotunno—Gordon & Breach, 1970, 261 p., diagrams, \$21 paper, \$9.50. Written primarily for biophysicists, presents the structure, role and properties of membranes by taking into account the contributions from enzymology, electronics, crystallography, electronmicroscopy and thermodynamics.

**LILIES—**Carl Feldmaier, transl. from German by Matt Templeton—Arco Pub. Co., 1970, 228 p., color plates, 73 photographs, drawings, 50 maps, \$9.95. Contains basic information about lilies, deals with biological and genetic factors and hybridization procedures, cultivation, multiplication, and classification of lilies in the wild and new hybrids.

**METHODS IN MEDICAL RESEARCH,** Vol. 12—R. E. Olson, Ed.-in-Chief—Year Bk. Medical Pubs., 1970, 440 p., illus., \$20. Volume devoted to the subject of chromatography, provides critical reviews of the methods of chromatography adsorption, gas-liquid, ion-exchange and electrochromatography.

**MIAMI SYMPOSIUM ON THE PREDICTION OF BEHAVIOR, 1968:** Effects of Early Experience—Marshall R. Jones, Ed.—Univ. of Miami Press, 1970, 122 p., illus., \$6.95. Research papers and comments deals with early experience effects in primates, life histories and individual differences, and early experience and cognitive functioning.

**THE PATH OF THE POLE—**Charles H. Hapgood—Chilton Bks., 1970, 413 p., diagrams, maps, \$14.95. Revised edition of *EARTH'S SHIFTING CRUST* (1958), relates recent evidence of continental drift to the author's assumption that the earth's outer shell slipped over the interior, thus changing the positions of the poles.

**PREPARE NOW FOR A METRIC FUTURE—**Frank Donovan—Weybright & Tally, 1970, 212 p., diagrams, \$5.95. A popular description of various systems of metrology, compares the complexities of the U.S. customary system with the metric, the outlook for conversion.

**PRINCIPLES OF AEROSOL TECHNOLOGY—**Paul A. Sanders—Van Nostrand Reinhold, 1970, 418 p., diagrams, \$17.50. Treats the basic theories and fundamental scientific principles governing the phenomena of the aerosol field, such properties as solubility, viscosity and vapor pressure.

**THE QUALITY OF LIFE—**James A. Michener—Lippincott, 1970, 127 p., \$4.95. Outlines the problems that threaten to erode the quality of life in America—population increase, race differences, keeping youth involved in our society, protecting the environment, and evolving new systems for governing metropolitan areas.

**RADIATION DAMAGE IN REACTOR MATERIALS,** Vols. I and II: Proceedings of Symposium, 1969—International Atomic Energy Agency—UNIPUB, 1970, 464 p., 606 p., illus., paper, \$13, \$17. Volume I deals with fundamental processes, techniques and applications, radiation hardening, fracture and creep. Volume II deals with damage models and spectral effects, voids, rare gases in solids, fuels and graphite.

**READINGS IN ECOLOGY AND ECOLOGICAL GENETICS—**Joseph H. Connell, David B. Mertz and William W. Murdoch, Eds.—Harper, 1970, 397 p., illus., paper, \$5.95. Examples of actual studies, mainly experimental, selected from the original literature.

**SCIENCE AND RESPONSIBILITY—**Andrew G. van Lesen—Duquesne Univ. Press, 1970, 172 p., \$6.95. Philosophical treatise, discusses the plurality and diversity of the sciences, their interaction, and the dilemma of priorities and social values.

**THE SEA AGAINST HUNGER—**C. P. Idyll—Crowell, 1970, 221 p., photographs, drawings, \$7.95. Marine biologist and oceanographer presents a readable and documented account of the oceans' food resources, the harvesting efforts of the various nations, the concept of freedom of the seas, and the outlook for international fishing in the future.

**SECRET WRITING:** The Craft of the Cryptographer—James Raymond Wolfe—McGraw-Hill, 1970, 192 p., diagrams, \$5.50. Tells what cryptography is about, how codes and cyphers developed, and how they work.

**THE SOCIAL EFFECTS OF COMMUNICATION TECHNOLOGY—**Herbert Goldhamer, Ed.—Rand, 1970, 32 p., paper, \$1 direct to Reports, Rand Corp. 1700 Main St., Santa Monica, Calif. 90406. Nontechnical review of principal developments in transistor and computer technology, their new capabilities and the social consequences of this communication revolution.

**WORLD WILDLIFE:** The Last Stand—Philip Kingsland Crowe—Scribner, 1970, 308 p., photographs, \$7.95. A report on three missions to try to save wildlife in some of the world's most populated countries, from Ceylon, India and Bhutan, to Central America and Mexico, and to South and Southwest Africa, Botswana and Angola.

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