

Films of The Week

Listing 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.

The following is a sampling of French films on science and medicine which are available for rental for \$3.00 each from the Society for French American Cultural Services and Educational Aid, 972 Fifth Ave., New York, N. Y. 10021. Films may be rented to organizations only, not to individuals.

ACOUSTIC EXPERIMENTS ON CROWS. 16mm, color, sound, 19 min. French language version only. Experiments on the behavior of crows in response to acoustic distress signals. Description of positive phonotaxis on winter migratory birds and on sedentary birds in colonies of rooks and jacksaws in springtime. Audience: scientific.

BALLET ON A PARAPHRENIC THEME. 16mm, color, sound, 32 min. English language version. A visual rendering of the world of phantasy expressed by a patient during paraphrenic delirium: delirious mythology, fragmentation and disintegration, narcissism, experience of depersonalization, perceptive anomalies, etc. Audience: psychologists, psychiatrists.

BIG RADIO-TELESCOPE AT NANCAY. 16mm, color, sound, 15 min. English language version. Following a description of the principles of radioastronomy by means of animated drawings and models, film shows some installations set up at Nancay for receiving and recording the innumerable signals sent out by the stars. Audience: general.

DIFFRACTION PHONEMA. 16mm, b&w, sound, 11 min. English language version. Diffraction phenomena at finite distances (Fresnel phenomena). Diffraction phenomena at infinite distance (Fraunhofer phenomena). Audience: physics students.

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ANIMAL FORMS AND PATTERNS: A Study of the Appearance of Animals—Adolf Portmann, transl. from German by Hella Czech—Schocken Bks., 254 p., illus. by Sabine Baur, \$6. The subject of this Swiss zoologist's book is animal Gestalt, inviting the reader to see the manifestations of an inner life in external animal patterns.

ANIMAL PARADISE—Christian Zuber, transl. from French by Marguerite Barnett—A. S. Barnes & Co., 152 p., photographs, maps, \$5. Describes a photographer's experiences among the wildlife of the Galapagos Islands.

ATOMIC ENERGY REVIEW, Vol. 4, Commemorative Issue: Tenth General Conference of the IAEA, Vienna, 1966—Sir John Cockcroft and others—IAEA (Internat'l Pubns., N.Y.), 103 p., illus., paper, \$2. Features contributions on the impact of atomic energy on society, on advanced nuclear power systems, and the commercial future of nuclear power.

SOME THEORY OF SAMPLING—William Edwards Deming—Dover, 602 p., diagrams, paper, \$3.50. Reprint (1950), written to make sampling techniques understandable not only to statisticians and mathematicians, but also social scientists, industrial managers and natural scientists.

THE STORY OF SUGAR—W. R. Aykroyd—Quadrangle Bks., 162 p., illus., maps, \$4.50. Popular historical account of sugar and its economic implications from the time sugarcane was introduced to the Caribbean in the 15th century to the present day.

SUMMER ISLAND: Penobscot Country—Eliot Porter; ed. by David Brower—Sierra Club, 200 p., photographs by author, \$25. Recreates the wild places off the coast of Maine where people live by moon time, and where the rocks, vegetation and water invite cormorant, osprey and thrush.

SYMMETRIES AND REFLECTIONS: Scientific Essays—Eugene P. Wigner—Indiana Univ. Press, 280 p., illus., \$7.50. Includes articles on symmetry and conservation laws, relativistic invariance and quantum phenomena, the problem of measurement, and reflections on the limits of science.

SYMPOSIUM ON FOODS: The Chemistry and Physiology of Flavors—H. W. Schultz, E. A. Day and L. M. Libbey, Eds.—Avi Pub. Co., 552 p., illus., \$3. Contains 24 papers by internationally recognized authorities on the physiological aspects of olfaction and gustation, advances in analytical methodology, the flavor of specific foods and the origin of flavor in foods.

THOMAS NUTTALL, NATURALIST: Explorations in America, 1808-1841—Jeannette E. Graustein—Harvard Univ. Press, 481 p., \$11.95. The first full-length biography of the naturalist who emigrated from England to Philadelphia in 1808 and carried out pioneering scientific explorations in America.

A WORLD HISTORY—William H. McNeill—Oxford Univ. Press, 478 p., 48 plates, maps, \$9.75. Offers an overview of the world's major civilizations, showing how in successive ages the world balance among cultures has been liable to disturbance from centers where men succeeded in creating an unusually attractive or powerful civilization.

Textbooks

APPLIED QUEUEING THEORY—Alec M. Lee—St. Martin's Press, 244 p., \$8.50. Text and reference work for operational research practitioners and statisticians, shows how existing theoretical models of queueing processes may be applied to solutions in such fields as air transportation, freight reservations and air terminal design.

THE CHEMISTRY OF ORGANIC FILM FORMERS—D. H. Solomon—Wiley, 369 p., diagrams, \$14.95. Written at the advanced level of the organic polymer scientist, this text attempts to provide the basic chemistry necessary to approach coating technology from a scientific point of view.

MECHANICS—E. A. Fox—Harper, 431 p., diagrams, \$12.50. This textbook attempts to treat particle, rigid-body and continuum mechanics in a unified manner. Emphasis is on kinematics, particularly the kinematics of deformation.

INTRODUCTION TO PARASITOLOGY—Arthur W. Jones—Addison-Wesley, 458 p., illus. by Allan D. Jones, \$10.75. Text for a short course in the junior or senior year of the biology curriculum, covers all the major and most of the minor parasites affecting man and his domestic animals.

MACHINING OF PLASTICS—Akira Kobayashi—McGraw, 257 p., 434 illus., \$16. Describes the optimum machining conditions for plastics used in the various engineering fields, presents basic fundamental data on the subject as well as information on tool design, speed and material rates. For use by industry as well as a textbook in plastics processing and technology.

MECHANICS OF FLUID FLOW—Paul A. Longwell—McGraw, 433 p., illus., \$14.75. Intended as a text in Fluid Mechanics primarily for first year graduate students in chemical engineering.

THE PHYSICS OF MODERN ELECTRONICS—W. A. Gunther, transl. from German by David Antin—Dover, 337 p., diagrams, paper, \$2.25. New English translation of the Swiss introductory textbook (1960), extensively revised and enlarged by the author.

TEACHING SCIENCE CREATIVELY in the Secondary Schools—Nathan S. Washon—Saunders, 430 p., photographs, diagrams, \$7.50. Text provides the guiding principles and methods of teaching science through inquiry, indicating plans for daily lessons, teaching units and syllabi.

A TEXTBOOK OF PHYSIOLOGICAL PSYCHOLOGY—Sebastian Peter Grossman—Wiley, 932 p., illus., \$14.95. Intended as a textbook for graduate and undergraduate students in biopsychology, neurophysiology and neuroanatomy. Extensive citation of primary sources should also make it a useful reference for research workers in these fields.

THEORY OF PHYSICS: An Introductory Course—Richard Stevenson and R. B. Moore—Saunders, 795 p., illus., \$9.75. Offers basis for an elementary course in physics at the university level. Broad coverage makes book useful as reference and permits lecturer to select material to fit the needs of his students.

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