

Books of the Week

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INTERNATIONAL STUDY OF ACHIEVEMENT IN MATHEMATICS: A Comparison of Twelve Countries, Vols. 1 and 2—Torsten Husen, Ed.—Wiley, 305 p., 368 p., two-vol. set \$19.95. International project involving 133,000 students, describes the complex design worked out to relate different patterns of educational organization in order to evaluate and compare 50,000,000 pieces of information on computer tapes.

THE JOURNAL OF GENERAL VIROLOGY, Vol. 1, Part I—Colin Kaplan and Peter Wildy, Eds.—Cambridge Univ. Press, 141 p., photographs, diagrams, paper, \$6.50; four parts per volume, \$19.50. Original contributions in the study of bacterial, plant and animal viruses including structure, genetics, systematics and interactions with host cells.

PERSISTENCE AND CHANGE: Bennington College and Its Students After Twenty-five Years—Theodore M. Newcomb and others—Wiley, 292 p., \$9.95. Presents analysis of restudy of more than 90% of three Bennington classes in the 1930's, isolating factors that resulted in long-range changes in attitudes.

PHYSICS FOR THE MODERN MIND—Walter R. Fuchs, foreword by Max Born, transl. from German by M. Wilson and M. Wheaton—Macmillan, 359 p., illus., \$6.95 Using examples within a familiar frame of reference, the author expounds the theories behind advanced aspects of physics. Difficult concepts are illuminated by an abundance of diagrams in color.

PUBLIC TELEVISION: A Program for Action—Carnegie Commission on Educational television, James R. Killian, Jr., Chmn.—Harper, 254 p., diagrams, \$4.95. Report and recommendations proposing the immediate extension and strengthening of educational TV, supplemented by papers prepared for the Commission's consideration.

THE ROD AND SERPENT OF ASKLEPIOS: Symbol of Medicine—J. Schouten—Elsevier Pub.

Co. (N.Y.), 260 p., 73 photographs, \$10. An art historian's outline of the important place the Aesculapian rod and serpent played in the lives of the ancients.

THE SCIENCE OF SALT: An Informal Introduction to Some of the Fundamentals of Chemistry and the Chemical Industry—Robert Froman, preface by Arthur F. Scott—McKay, 86 p., illus. by Anne Marie Jauss, \$3.25. Invites young people to take a look at the field of chemistry by tracing the history and uses of one of the commonest chemicals.

SEX AND SOCIETY IN SWEDEN—Birgitta Linner with Richard J. Littell, preface by Lester A. Kirkendall—Pantheon Bks., 204 p., photographs, illus., \$5.95. An authoritative discussion of how Swedish law, schools, welfare programs, social and sexual customs are trying to develop a responsible national pattern of sexual expression.

THE SMOKEJUMPERS —Randle M. Hurst—Caxton Printers, 284 p., photographs, map, \$5. Chronicles true events in the professional fire control duties of parachuting firemen patrolling the wilderness areas of the western United States.

SOUTHEAST ASIAN TRIBES, MINORITIES AND NATIONS, Vol. I and II—Peter Kunstadter, Ed.—Princeton Univ. Press, 916 p., photographs, maps, \$22.50. Based on original field work, anthropologists and other specialists report on the relationship between rural minority groups and central governments in such developing countries as Burma, China, India, Laos, Malaysia, Thailand and Vietnam.

THE UFUW HANDBOOK ON THE CARE AND MANAGEMENT OF LABORATORY ANIMALS—UFUW Staff, W. Lane-Petter and others, Eds.; foreword by Sir Peter Medawar—Williams & Wilkins, 3rd ed., 1015 p., illus., \$32. Fully revised standard handbook on good husbandry of animals suitable for scientific research.

VARIETY OF MEN—C. P. Snow—Scribner, 270 p., \$5.95. Biographical sketches based on personal impressions of such men as Rutherford, G. H. Hardy, Einstein, Robert Frost, Dag Hammarskjöld and Stalin.

Textbooks

THE CHANGING CONCEPTS OF SCIENCE —Hugh Grayson-Smith—Prentice-Hall, 624 p., illus., diagrams, maps, \$8.95. Textbook designed for students majoring in the humanities and social sciences, and for students in education.

COMPREHENSIVE TEXTBOOK OF PSYCHIATRY—Alfred M. Freedman, and Harold I. Kaplan, Eds., asstd. by Helen S. Kaplan—Williams & Wilkins, 1666 p., illus., \$24.75. Text includes all the major contributions and trends that are now influencing the directions in psychiatry, and emphasizes the behavioral science materials necessary for expansion of theoretical understanding.

INTRODUCTION TO MAGNETIC RESONANCE with Applications to Chemistry and Chemical Physics—Alan Carrington and Andrew D. McLachlan—Harper, 266 p., diagrams, \$10.95. Designed primarily for first-year chemistry graduate students and advanced senior undergraduates.

GENERAL CHEMISTRY—Martin A. Paul, Edward J. King and Larkin H. Farinholt—Harcourt, 789 p., illus., \$9.95. Text for a first-year college course, presents chemistry not as an isolated subject but as related to other disciplines, and provides background for the combination of qualitative and quantitative experiments favored for the first-year laboratory.

THE NEW COLLEGE PHYSICS: A Spiral Approach—Albert V. Baez—Freeman, 739 p., 743 illus., \$11.75. Textbook in general physics for liberal arts students, progresses from one basic physical concept to another, giving specific examples for each, then returning to these concepts at progressively higher levels of difficulty.

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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.

CLASSROOMS IN TRANSITION. 16mm, b&w, sound, 31 min. About changes brought about in inner city classrooms of Washington, D.C., as children and teachers use new science learning materials. Filmed in classrooms, with students commentary by participating teachers. Audience: teachers, parents, graduate and undergraduate education. Purchase \$125 or rental \$7.50 from Film Librarian, Educational Development Center, 39 Chapel St., Newton, Mass. 02160.

DIAGNOSIS AND MANAGEMENT OF EYE INJURIES. 16mm, color, sound, 29 min. Details diagnosis and management of eye injuries caused by abrasions, foreign bodies and chemical burns by using modern drugs, surgical techniques, and other emergency procedures. Audience: physicians, interns, nurses, and emergency squads. Purchase \$240 or rental \$9 from Film Distribution Supervisor, Ohio State University, Motion Picture Division, 1885 Neil Ave., Columbus, Ohio 43210.

THE LIVING FILTER. 16mm, sound b&w, 9 min. Describes successful experiment in renovation of waste water, showing how treated effluent can be sprayed over crop and forest land and allowed to filter back through soil into the water table. Audience: irrigation and hydraulics engineers, water authorities, general public. Purchase \$35 or free loan from Department of Public Information, 312 Old Main Building, Pennsylvania State University, University Park, Pa. 16802.

STRATA: THE EARTH'S CHANGING CRUST. 16mm, color, sound, 10 min. Strata—layers of rock—were originally formed from flat layers of sediment deposited on the sea bottoms. Strata often have faults or folds resulting from pressures applied slowly over tens of thousands of years, and show the changes in the earth's crust. Audience: junior, senior high. Purchase \$125 from Film Associates, 11559 Santa Monica Blvd. Los Angeles, Calif. 90025.

Bantam Science and Mathematics

THE CHANGING EARTH

By Judith Viorst
of SCIENCE SERVICE

Introduction—
By Frank C. Whitmore
U.S. Geological Survey

Preface—
By Watson Davis
Director Emeritus
SCIENCE SERVICE

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