

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

**ABOUT RIVERS**—Albert Dickey—*Melmont Pubs.*, 32 p., photographs, \$2.50. Tells young readers some interesting facts about rivers and their uses.

**AQUARIUM FISH IN COLOR**—G. Mandahl-Barth—*Dutton*, 138 p., 225 illus. by N. Norvil, \$2.95. Little handbook describing 188 species for the student and collector of tropical aquarium fish.

**AROMATIC SUBSTITUTION: Nitration and Halogenation**—P. B. D. de la Mare and J. H. Ridd—*Academic*, 252 p., \$9. Monograph discusses in detail two of the most important electrophilic aromatic substitutions. Each chapter followed by list of references.

**BRIMSTONE: The Stone That Burns. The Story of the Frasch Sulphur Industry**—William Haynes—*Van Nostrand*, 308 p., illus., \$5.95. Based on a work published in 1942, called *The Stone That Burns*, this is the story of the American sulphur industry from early days in Louisiana to today's new developments in France and Canada.

**CELL, ORGANISM AND MILIEU**—Charles E. Wilde and others, Dorothea Rudnick, Ed.—*Ronald*, 326 p., illus., \$8. Contributions to the 17th Symposium of the Society for the Study of Development and Growth, concerned with the concept of differentiation and growth in response to a changing chemical environment. Bibliographies included.

**CLOUDS**—Thomas McGrath—*Melmont Pubs.*, 32 p., illus. by Chris Jenkyns, \$2.50. Second grader will enjoy the illustrations and learn some big words about various clouds.

**CONCEPTUAL THINKING: A Logical Inquiry**—Stephan Korner—*Dover*, 301 p., paper, \$1.75. Reprint of first edition.

**DISCOVERER OF THE NORTH POLE: The Story of Robert E. Peary**—Marie Peary Stafford—*Morrow*, 220 p., illus. by Walter Bucher, \$3. The story of Arctic expeditions before the age of modern vehicles, told for young people.

**DOCTOR PARACELUSUS**—Sidney Rosen—*Little*, 214 p., illus. by Raffaello Busoni, \$3.50. Biography for boys and girls.

**ELEMENTS OF CHORDATE ANATOMY**—Charles K. Weichert—*McGraw*, 2nd ed., 503 p., illus., \$6.75. Designed for a one-semester course in comparative vertebrate anatomy.

**THE ENGLISH HEALTH SERVICE: Its Origins, Structure and Achievements**—Harry Eckstein, foreword by James Howard Means—*Harvard Univ. Press*, 289 p., \$5.50. Author spent two years in England, evaluating and analyzing the successes and failures of the first decade of operation of the British National Health Service.

**FLATTOP**—Barrett Gallagher, foreword by Admiral Arleigh Burke, U.S. Navy—*Doubleday*, 128 p., 160 photographs, \$5.95. Describes in pictures and text the story of American aircraft carriers in action from 1944 to 1959.

**THE FLOORS OF THE OCEANS I. The North Atlantic, Text to Accompany the Physiographic Diagram of the North Atlantic**—Bruce C. Heezen, Marie Tharp and Maurice Ewing—*Geological Soc. of Am.*, Special Paper 65, 122 p., illus., \$4.50. This corrects listing in SNL June 13, 1959, which erroneously quoted price as \$1.50, the price of the map alone.

**FREE ASSOCIATIONS: Memories of a Psychoanalyst**—Ernest Jones—*Basic Bks.*, 264 p., illus., \$5. Memoirs of the distinguished psychoanalyst of Welsh origin who became known for his biography of Sigmund Freud.

**FROM DEATH-CAMP TO EXISTENTIALISM: A Psychiatrist's Path to a New Therapy**—Viktor E. Frankl, transl. from German by Ilse Lasch, preface by Gordon W. Allport—*Beacon Press*, 111 p., \$3. Personal narrative of a psychiatrist's experiences during three years spent as a Nazi prisoner in four different concentration camps.

**GROWING ORANGES**—Dorothy Traver and Art Miller—*Melmont Pubs.*, 30 p., photographs by Art Miller, \$2.50. Tells children how oranges are grown, in pictures and simple language.

**HERE COME THE RACOONS!**—Alice E. Goudey—*Scribner*, 94 p., illus. by Garry MacKenzie, \$2.50. Life story of racoons told engagingly for young readers.

## RAPID CALCULATIONS

by A. H. Russell

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**A HISTORY OF EMBRYOLOGY**—Joseph Needham, rev. with Arthur Hughes—*Abelard-Schuman*, 2nd ed., 304 p., illus., \$7.50. Traces the roots of chemical embryology in history and presents a wealth of data on many interesting aspects of the subject. Fully annotated, 50-page bibliography included.

**HOW TO USE YOUR TELESCOPE**—*Edmund Scientific Co.*, 40 p., illus., paper, 60¢. Tells how to select your telescope, how to use an equatorial mount, and how to find sky objects. Contains hints on observing planets and sun, on aligning optical elements and on photography with your telescope.

**HYPERSONIC AERODYNAMICS**—Robert Wesley Truitt—*Ronald*, 462 p., \$10. Discusses the application of magneto-aerodynamics to the design of re-entry nose cones. Textbook for engineering students and practicing engineers in the missile field.

**INTRODUCTION TO THE LAPLACE TRANSFORM**—Dio L. Holl, Clair G. Maple and Bernard Vinograd—*Appleton*, 174 p., \$4.25. Course for third year engineering students.

**ION EXCHANGE: A Laboratory Manual**—J. E. Salmon and D. K. Hale—*Academic*, 136 p., illus., \$5. Introductory course presenting the fundamental principles and offering guidance in practical problems arising in the application of ion exchange.

**METHODS OF VEGETATION STUDY**—Edwin Allen Phillips—*Holt*, 107 p., illus., \$2.95. Simplified presentation of several different systems of vegetation study used on the European continent, in Great Britain and America.

**1001 QUESTIONS ANSWERED ABOUT THE MINERAL KINGDOM**—Richard M. Pearl—*Dodd*, 326 p., illus., \$6. Easy reference for the general reader, answering questions about rocks, ores, gems, meteorites, radioactive minerals, fossil fuels and many other phases of the mineral world.

**PHILOSOPHY AND THE PHYSICISTS**—L. Susan Stebbing—*Dover*, 295 p., paper, \$1.65. Reprint of first edition which appeared in 1937.

**PLANTS THAT CHANGED THE WORLD**—Bertha S. Dodge—*Little*, 183 p., illus. by Henry B. Kane, \$3.50. Describes the origin of some of the plant products that have helped make history, such as the fever bark tree, the abaca plant and the breadfruit. Bibliography included.

**PRINCIPLES AND PRACTICES OF GAS CHROMATOGRAPHY**—Robert L. Pecsok, Ed.—*Wiley*, 226 p., illus., \$6.75. Outgrowth of an introductory course in gas chromatography, a field whose phenomenal growth is reflected in the fact that three-fourths of the 710 papers listed in the bibliography have appeared in the last three years.



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**THE PRINCIPLES OF HUMANE EXPERIMENTAL TECHNIQUE**—W. M. Russell and R. L. Burch—*Methuen*, 238 p., \$4.35. This study is the outcome of several years of research on the progress of humane technique in the laboratory, sponsored by the Universities Federation for Animal Welfare in Great Britain.

**RECENT RESEARCH IN MOLECULAR BEAMS:** Collection of Papers Dedicated to Otto Stern on the Occasion of his Seventieth Birthday—Immanuel Estermann, Ed.—*Academic*, 190 p., illus., \$6.50. Scientific papers dealing with present and past research in the field.

**RESEARCH AND DEVELOPMENT IN REACTOR SAFETY:** A Program of the United States Atomic Energy Commission—B. John Garrick, Ed.—*Govt. Print. Off.*, 66 p., illus., paper, 65¢. Review of the present status of AEC research and development directed toward nuclear reactor safety.

**A SHORT COURSE IN ORGANIC CHEMISTRY**—Harold Hart and Robert D. Schuetz—*Houghton*, 2nd ed., 346 p., illus., \$6. Written for students in agriculture, medicine and other groups requiring less than the traditional year's course.

**SYMPOSIA ON CHILD AND JUVENILE DELINQUENCY** presented at the American Orthopsychiatric Association—Benjamin Karpman, Chmn. and Ed.—*Psychodynamics Monograph Series*, 364 p., index, illus. by Wesley R. Wilken, \$10. Reports with analyses and comment by thirty leading child psychiatrists, psychologists and social workers.

**WONDERFUL WHEELS**—Fennie Ziner—*Melmont Pubs.*, 24 p., illus. by Gene Holtan, \$2.50. Introduces young readers to the simplest mechanics of wheels.

Science News Letter, August 22, 1959

#### CONSERVATION

### Aim at Wilderness Vote in Senate Soon

WILDERNESS for America may become a reality after more than two years of hearings.

A "mark up" session was held on Aug. 14 by the Senate Committee on Interior and Insular Affairs. The committee members considered all amendments, some 35 of them, to S. 1123, the Wilderness Bill, and drafted a "final" version of the bill. Supporters of the bill hope to have it reported out for consideration on the Senate floor before this session of Congress ends.

Opponents of the bill, largely those groups who use public lands, seem to have been defeated in their delaying tactics. For two years now they have said, in effect, that land now considered as "wild" should not be preserved as such for future generations. Commercial interests, they maintained, should have an option on these public lands.

During the hearings, two long sessions in Washington and six in various western states, a number of changes have been made in the bill to meet criticisms, yet keep the concept of preserving the nation's remaining wilderness areas.

Among the amendments that the committee considered are the following: 1. eliminate the Wilderness Preservation Council; 2. omit all references to Indian lands; 3. delete language some persons have interpreted as sanctioning unlimited expansion of wilderness areas; and, 4. prohibit admission of areas as part of the Wilderness System unless reviewed by the Congress.

Science News Letter, August 22, 1959

#### MEDICINE

## Ills High in Suburb

A RAPIDLY growing suburban community is a good breeding ground for ulcers and other tension disorders.

An investigation of three communities, a stable rural area, a moderate-growth, mixed-rural region, and a rapidly expanding suburb, reveals that the mushrooming suburb housed the highest percentage of patients with coronary thrombosis, duodenal ulcer, and high blood pressure and related diseases.

Young women in the expanding suburb were particularly prone to these illnesses which a psychiatrist describes as psychosomatic—originating "in your head."

Young boys ran a close second in this respect, Dr. Richard E. and Katherine K. Gordon, Englewood, N. J., report in the *Journal of the American Medical Association* (Aug. 8).

It is difficult to show why married women and sons, whose rates are rising, were more unstable than the men, when much of the relocating is related to the husbands' new job opportunities, they pointed out.

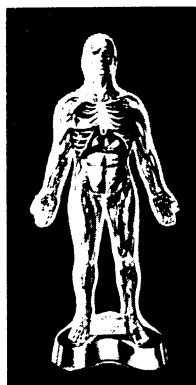
In present day America, many married

women who move away from parents and familiar neighborhoods are soon exposed to responsibilities for which they are poorly prepared, and for which they receive little assistance, guidance, relief, and relatively less recognition and praise. These women are shy and insecure, the researchers explained.

Turning to the men of such a suburban community, Dr. Gordon explained that many of them are striving to rise socially and economically "out of the working class into subexecutive white-collar jobs and lesser managerial positions."

But they face a serious problem in their rise toward greater executive responsibility because they were not "born to the class" as were many of the men who are top executives. Thus, the upwardly mobile person has to learn everything the hard way and may have a great deal to lose and knows it. Psychosomatic illness and emotional disorders will disappear in the upwardly mobile person only when he feels he is secure and is able to relax, he concludes.

Science News Letter, August 22, 1959



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