

# 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.

**ADVANCED ANALYTICAL CHEMISTRY**—Walter Wagner, Clarence J. Hull and Gerald E. Markle—*Reinhold*, 282 p., illus., \$6.00. For the beginning graduate student.

**THE ANTARCTIC CHALLENGED**—Admiral Lord Mountevans—*John de Graff*, 247 p., illus., \$4.50. Reviewing all that has been learned of the Antarctic before this year.

**BIOLOGY AND TAXONOMY OF NORTH AMERICAN BEETLES OF THE SUBFAMILY GEOTRUPINAE WITH REVISIONS OF THE GENERA BOLBOCEROSOMA, EUCANTHUS, GEOTRUPES AND PELTOTRUPES (SCARABAEIDAE)**—Henry F. Howden—*Smithsonian*, 169 p., illus., paper, free upon request direct to publisher, Washington 25, D. C.

**BULLETIN OF THE AMERICAN PHYSICAL SOCIETY. Series II, Vol. I, No. 1**—Karl K. Darrow, Ed.—*American Physical Society*, eight issues a year, 77 p., paper, \$5.00 per year, single copies \$1.00. Abstracts formerly reprinted in the *Physical Review* will, with the start of the new series, appear only in this bulletin.

**A CHECK-LIST OF THE FOSSIL AND PREHISTORIC BIRDS OF NORTH AMERICA AND THE WEST INDIES**—Alexander Wetmore—*Smithsonian*, Miscellaneous Collections Volume 131, Number 5, 105 p., paper, 70 cents. Describing several species known only from bones found during archaeological excavations or in pre-Columbian Indian kitchen middens.

**CONTRIBUTIONS TO THE NOMENCLATURE, SYSTEMATICS, AND MORPHOLOGY OF THE OCTOCORALLIA**—Frederick M. Bayer—*Smithsonian*, 13 p., illus., paper, free upon request direct to publisher, Washington 25, D. C.

**DENTAL ABSTRACTS: A Selection of World Dental Literature, Volume 1, Number 1**—Lon W. Morrey—*American Dental Association*, monthly, 64 p., illus., paper, subscriptions \$6.00

per year. Summaries of articles from the major dental journals of the world. The reader may borrow the complete article if he wishes.

**A DESIGN FOR NON-STICKING PLUG AND RING GAGES AND LOCATORS**—Lawrence E. Doyle, Bernard R. Better and Bei Tse Chao—*University of Illinois*, Engineering Experiment Station Bulletin No. 433, 28 p., illus., paper, 45 cents. How to keep a plug from sticking or going in crooked in a close-fitting hole.

**ELEMENTS OF QUANTITATIVE ANALYSIS: Theory and Practice**—Hobart H. Willard, N. Howell Furman and Clark E. Bricker—*Van Nostrand*, 4th ed., 576 p., illus., \$5.85. Revised to include as many new developments as possible.

**FLUID FLOW IN PRACTICE: A Collection of Papers Originally Presented in Philadelphia, Pa., in May, 1955, Under the Auspices of the Philadelphia-Wilmington Section of the American Institute of Chemical Engineers and the Department of Chemical Engineering, University of Pennsylvania**—J. R. Caddell, Ed.—*Reinhold*, 119 p., illus., \$3.00. Directed to young engineers.

**FLUIDIZATION**—Donald F. Othmer, Ed.—*Reinhold*, 231 p., illus., \$7.00. The fluidization technique using gases is one of the major engineering developments of the last 25 years.

**FUNDAMENTALS OF QUANTITATIVE CHEMICAL ANALYSIS: Semimicro Method**—Roy K. McAlpine and Byron A. Soule—*Van Nostrand*, 4th ed., 340 p., illus., \$5.00. Intended to give the student direct contact with the chemical behavior of a number of common metals and acid radicals.

**IMMUNOLOGY AND SEROLOGY**—Philip L. Carpenter—*Saunders*, 351 p., illus., \$6.50. A textbook for advanced students.

**INFORMATION THEORY IN PSYCHOLOGY: Problems and Methods**—Henry Quastler, Ed.—*Free Press*, 436 p., illus., \$6.00. Proceedings of a conference on the estimation of information flow.

**THE KEY TO INTERPLANETARY SPACE TRAVEL**—Bradford Chambers and Eve Chambers—*Stravon*, 66 p., illus., \$1.50. Discussing some of the problems involved in plans for interplanetary flight—time required, fuel required, difficulties involved.

**MARKETING COSTS FOR FOOD**—Agricultural Marketing Service, USDA—*Govt. Printing Office*, USDA Miscellaneous Publication No. 708, 14 p., illus., paper, 10 cents. The farmer's share of each dollar you spend on food has declined from 53 cents in 1945 to 41 cents in 1955, but retail food prices are now more than double what they were in 1940.

**THE MATHEMATICS OF PHYSICS AND CHEMISTRY**—Henry Margenau and George Moseley Murphy—*Van Nostrand*, 2d ed., 604 p., illus., \$7.95. Forming a bridge between ordinary training in differential and integral calculus and the mathematical knowledge needed for advanced scientific developments.

**MODIFICATIONS OF PATTERN IN THE AORTIC ARCH SYSTEM OF BIRDS AND THEIR PHYLOGENETIC SIGNIFICANCE**—Fred H. Glenny—*Smithsonian*, 97 p., illus., paper, free upon request direct to publisher, Washington 25, D. C. Discussing implications with respect to the evolution of this system of arteries in birds.

**THE NATIONAL RESEARCH COUNCIL (CANADA) REVIEW 1955**—E. W. R. Steacie, President—*National Research Council, (Canada)*, 268 p., illus., paper, 75 cents. Describing work done during 1954, but including some later studies.

*National Research Council, (Canada)*, 268 p., illus., paper, 75 cents. Describing work done during 1954, but including some later studies.

**NATIONAL SCIENCE FOUNDATION FIFTH ANNUAL REPORT 1955**—Alan T. Waterman, Director—*Govt. Printing Office*, 159 p., illus., paper, 50 cents. Emphasis, the foreword indicates, must surely be placed upon the development of both the competence and the interest of individuals. This problem is only partly related to national security.

**THE NATURE OF HYPNOSIS**—Paul Schilder, translated by Gerda Corvin—*International Universities Press*, 204 p., \$4.00. Written about 25 years ago, this book is offered by the publisher for its historical as well as intrinsic value.

**NUCLEAR PHYSICS: Monthly Journal Devoted to the Experimental and Theoretical Study of Atomic Nuclei, Nuclear Fields and the Fundamental Aspects of Cosmic Radiation, Volume 1, No. 1**—L. Rosenfeld, Ed.—*North-Holland Publishing Co. (Interscience)*, 72 p., paper, \$15.00 per year. Abstracts and some text are in English.

**PHILANTHROPIC FOUNDATIONS**—F. Emerson Andrews—*Russell Sage Foundation*, 459 p., \$5.00. Information about some 5,000 foundations existing today in the United States.

**PRACTICAL TEXTILE CHEMISTRY**—J. W. Bell—*Chemical Publishing Co.*, 1st American ed., 259 p., illus., \$4.75. Providing training for the textile student. Contains experiments illustrating the fundamental properties of fibers.

**RECENT STUDIES IN AVIAN BIOLOGY**—Albert Wolfson, Ed.—*University of Illinois Press*, 479 p., illus., \$7.50. Intended to demonstrate our ignorance of important facts and so stimulate further research in ornithology.

**SCIENTIFIC RESEARCH EXPENDITURES BY THE LARGER PRIVATE FOUNDATIONS**—prepared for the National Science Foundation by F. Emerson Andrews—*Govt. Printing Office*, 21 p., illus., paper, 25 cents. Some \$26,000,000 was expended, the major part for life sciences, biological, agricultural and medical. Only 43 of the 77 major foundations supported scientific research.

**A SCIENTIST'S SCIENTIFIC METHOD**—L. C. Glass—*Glass*, 3d ed., 48 p., paper, \$1.00. Discussing how to tell what is truth, and the origin of some ancient unscientific beliefs and folk-tales.

**A SHORTER VERSION OF THE SECOND EDITION OF THE VERTEBRATE BODY**—Alfred Sherwood Romer—*Saunders*, 486 p., illus., \$5.50. This abbreviation of the work is intended to make it more suitable as a text for brief courses.

**SOCIAL SCIENCE RESEARCH COUNCIL ANNUAL REPORT 1954-1955**—Pendleton Herring, presi-

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dent—*Social Science Research Council*, 86 p., paper, free upon request direct to publisher, 230 Park Ave., New York 17, N. Y.

SYNONOMICAL NOTES ON NEOTROPICAL FLIES OF THE FAMILY TABANIDAE (DIPTERA)—G. B. Fairchild—*Smithsonian*, Miscellaneous Collections Volume 131, No. 3, 38 p., paper, 60 cents. The nomenclature of these flies has long been in a state of great confusion.

THE TENTH WONDER: Atomic Energy—Carleton Pearl—*Little, Brown*, 129 p., illus., \$3.00. The title may make you wonder about the eight and ninth wonders. The author explains, "Everybody has his own favorite eighth wonder, Albert Einstein's theory of relativity is the ninth." A simply written, readable book from Columbia's School of Engineering.

Science News Letter, February 11, 1956

FORESTRY

**Battle Against Tree Disease Being Won**

➤ THE WAR against the costly blister rust disease that attacks white pines is being won.

The deadly plant disease has been checked on 17,000,000 of the 23,300,000 acres where control is needed throughout the nation, the U. S. Forest Service has reported.

Under attack in 32 states, the disease was responsible in a recent typical year for the destruction of 623,000,000 board feet of sawtimber.

In the fight against the blister rust, 12,800,000 wild currant and gooseberry bushes, which act as intermediary hosts for the disease, were destroyed.

Science News Letter, February 11, 1956

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SURGERY

**Find Ankle Spurs in 45% Of Young Athletes**

➤ UNSUSPECTED ANKLE SPURS were found in 45% of a group of 120 young athletes aged 15 to 25, Dr. Don H. O'Donoghue of Oklahoma City reported to the American Academy of Orthopaedic Surgeons meeting in Chicago.

In another 120 non-athletes of the same age, the X-ray examination showed spurs in only 16 of the men. This, Dr. O'Donoghue said, shows that excessive activity plays a part in the spur formation.

Spurs are bony overgrowths on ankle or shin bone. They are hard to detect. Often they are found responsible for mysterious loss of "drive" in an athlete who previously had been a star performer. Because there is no swelling, pain or tenderness to show the spur, team mates and coaches may think the player is shirking.

Restricting activity is usually enough to relieve symptoms, Dr. O'Donoghue reported. Surgery offers a good chance for cure. Spurs did not recur in 14 patients he operated on.

A high percentage of patients who see a doctor give a history of relatively mild injury to the ankle some time in the past.

Science News Letter, February 11, 1956

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 "Adventures in Science" with Watson Davis, director of Science Service, over the CBS Radio Network. Check your local CBS station.

Youthful winners of the Fifteenth Annual Science Talent Search for the Westinghouse Science Scholarships, who have been selected from the nation's high schools as potential creative scientists of the future, will describe their projects. Other winners will appear on next week's program, Feb. 25.

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