

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.

ADVANCES IN VETERINARY SCIENCE, VOL. I—C. A. Brandly and E. L. Jungherr, Ed.—*Academic Press*, 431 p., illus., \$9.00. Reviews the progress in the fields of research pertinent to veterinary science and the application of the newer knowledge to the practice of veterinary medicine.

ALGAL CULTURE: From Laboratory to Pilot Plant—John S. Burlew, Ed.—*Carnegie Institution of Washington*, 357 p., illus., paper \$1.25, cloth \$1.75. The growing of algae may one day solve the problem of how to feed the hungry populations of the world. This report tells of the experience of pilot plants in growing these one-celled plants and trying to make them palatable. (See SNL, July 25, p. 51.)

THE BCOS REVIEW OF SCIENCE IN U.S.A. FOR THE YEAR ENDING JUNE, 1952—British Commonwealth Scientific Office, North America—*Her Majesty's Stationery Office*, 40 p., paper, 35 cents. A general account of the distribution of scientific effort within federal, industrial and university institutions and a description of some of the more important developments.

A BIBLIOGRAPHY ON METEORITES—Harrison Brown, Ed.—*Univ. of Chicago Press*, 686 p., \$10.00. A key to all available data on meteorites, this chronologically arranged bibliography covers the whole of world literature on meteorites and related subjects published between 1491 and 1950.

BOREAL HEPATICAE: A Manual of the Liverworts of Minnesota and Adjacent Regions—Rudolf M. Schuster—*Univ. of Notre Dame Press*, American Midland Naturalist Vol. 49, No. 2, 427 p., illus., paper, \$1.75. A manual of the Hepaticae of Minnesota which adds 55 rare species to the flora of that state as well as 8 genera and 4 families.

BROWN COAL: Its Mining and Utilization—P. L. Henderson, Ed.—*Melbourne University Press (Cambridge University Press)*, 351 p., illus., \$7.50. The terms brown coal and lignite are sometimes used as synonyms, but this author uses lignite to refer to a woody material and brown coal for coal which is brown and contains more than 30% moisture.

CRACKING CATALYST ACTIVITY IN THE PRESENCE OF HYDROGEN SULFIDE—H. A. Dirksen, H. R. Linden, and E. S. Pettyjohn—*Institute of Gas Technology*, Research Bul. 4, 28 p., illus., paper, \$3.50. An exploratory study, using the steam-propane reaction, of the activities of metallic cracking catalysts.

EMPLOYMENT AND WAGES IN THE UNITED STATES—W. S. Woytinsky and associates—*Twentieth Century Fund*, 777 p., illus., \$7.50. Bringing together in a single volume data concerning the working people of the country, their various occupations and the number of employees in each, the ebb and flow of employment, wages paid, hours and working conditions.

EVOLUTION OF THE CALIFORNIA LANDSCAPE—Norman E. A. Hinds—*Cal. Div. of Mines*, Bul. 158, 240 p., illus., \$2.50. Characterizes with photographs, maps and drawings the significant surface features; and describes those surface

features as they are related to the geology and rock structure of the state of California.

EXPERIMENTAL STUDIES IN PSYCHIATRIC ART—E. Cunningham Dax—*Lippincott*, 100 p., illus., \$5.00. A mental hospital superintendent describes experiments in using music and painting as methods of treatment for the mentally ill.

FEDERAL FUNDS FOR SCIENCE: I. Federal Funds for Scientific Research and Development at Nonprofit Institutions 1950-1951 and 1951-1952—National Science Foundation—*Govt. Printing Office*, 48 p., illus., paper, 30 cents. "Modern war," the foreword points out, "uses scientific knowledge as insatiably as it does material resources." (See p. 68.)

A FREE SOCIETY: An Evaluation of Contemporary Democracy—Mark M. Heald—*Philosophical Library*, 546 p., \$4.75. Compares the theory and practice of democracy, moderate socialism, fascism and bolshevism, and discusses many of the difficulties and limitations imposed upon democratic practice by its own inherent nature.

FUNDAMENTALS OF BIOLOGY—M. J. Harbaugh and A. L. Goodrich, Eds.—*Blakiston*, 611 p., illus., \$6.00. A text for college students designed to meet the needs of all students regardless of their field of specialization.

GROWING UP IN NEW GUINEA—Margaret Mead—*New American Library*, 223 p., paper, 35 cents. This report covers field work completed 25 years ago among the Manus, a people with a Stone Age culture. It was originally published by *Morrow* in 1930. Miss Mead is currently among the same people to determine how the young people grew up and the effects of World War II on their civilization. (See SNL, July 4, p. 15.)

HOW TO RAISE A DOG: In The City And In The Suburbs—James R. Kinney and Ann Honeycutt—*Simon and Schuster*, rev. ed., 209 p., illus., \$2.95. Delightfully illustrated by James Thurber, this has been revised to include the changes that have taken place in the treatments of disease, the use of antibiotics, the popularity and value of obedience schools.

LABORATORY MANUAL IN PHYSICAL CHEMISTRY—Richard B. Ellis and Alfred P. Mills—*McGraw-Hill*, 94 p., illus., paper, \$3.50. Designed primarily to fit the needs of the small college, where the special equipment needed for more elaborate experiments is quite limited, and where the course must be operated on a limited budget.

NEW AND NONOFFICIAL REMEDIES, 1953—Council on Pharmacy and Chemistry, American Medical Assoc.—*Lippincott*, 623 p., \$2.65. Contains descriptions of the articles which stand accepted by the Council on Pharmacy and Chemistry as of Jan. 1, 1953.

NEW NUCLEAR DATA: 1952 Cumulation—National Bureau of Standards Nuclear Data Group—*Technical Information Service*, 52 p., paper, 25 cents. The material presented here is that which appeared in Nuclear Science Abstracts, Vol. 6, Nos. 1 through 23.

THE ORIGINS OF LOVE AND HATE—Ian D. Suttie—*Julian Press*, 275 p., \$4.00. Presents a new biological and psychological conception of love and hate, in which hate is shown as a frustration of the love need. Unlike the Freudian concept, its cornerstone is love, not sex.

OUR NEIGHBOUR WORLDS—V. A. Firsoff—*Philosophical Library*, 336 p., illus., \$6.00. A survey of the solar system is used as a basis for an investigation of interplanetary travel, which the author thinks is possible within a few decades.

THE PHARM-ASSIST MANUAL (FORMERLY GRAY'S PHARMACEUTICAL QUIZ COMPEND)—A. E. Slesser—*Mosby*, 167 p., \$3.50. Intended as a review-reference work for students and recent graduates in medicine and pharmacy. Written to conform to the U. S. Pharmacopoeia.

PHYSICS PRINCIPLES AND APPLICATIONS—Henry Margenau, William W. Watson, and C. G. Montgomery—*McGraw-Hill*, 2d ed., 814 p., illus., \$7.50. Revised to place greater emphasis upon mks units. Material has been added on the cosmotron, the Schmidt camera, the transistor and the hydrogen bomb in this standard engineering-physics text.

PLOUGH AND PASTURE: The Early History of Farming—E. Cecil Curwen and Gudmund Hatt—*Schuman*, 329 p., illus., \$4.50. Tracing agriculture back to its beginnings in the Near East, this also treats of early farming in other parts of the world.

PRINCIPLES OF AUTOMATIC CONTROL—G. F. Akins and J. H. Kowalski—*Instrument Society of America*, 32 p., illus., paper, \$1.25. Discusses the justification for automatic control, the design of an automatic controller, and the application of a controller to a process.

REPORTS FROM INTERNATIONAL NON-GOVERNMENTAL SCIENTIFIC ORGANIZATIONS ON THEIR ACTIVITIES FOR WHICH UNESCO ALLOCATED SUBVENTIONS IN 1952—*United Nations Educational, Scientific and Cultural Organization*, 55 p., paper, free upon request direct to UNESCO Relations Staff, U. S. Department of State, Washington 25, D. C. Giving details of the ways in which nations are cooperating for the furtherance of scientific aims.

SURVEY OF NATIONAL RESEARCH COUNCILS FOR PURE AND APPLIED SCIENCE IN THE MEMBER STATES OF UNESCO—*United Nations Educational, Scientific and Cultural Organization*, 88 p., paper, free upon request to UNESCO Relations Staff, U. S. Department of State, Washington 25, D. C. Giving the address, names of officers, aims and scope and main activities. Since the first two were founded in 1916, 28 countries have established such agencies. (See p. 67.)

THE TRUE BOOK OF TOYS AT WORK—John Lewellen—*Children's Press*, 45 p., illus., \$2.00. When the young scientist in your family begins to wonder why the wheels make his wagon run smoothly down the walk or how his flashlight gives light, he may find the answers in this attractive book.

THE WORLDLY PHILOSOPHERS: The Lives, Times, and Ideas of the Great Economic Thinkers—Robert L. Heilbroner—*Simon and Schuster*, 342 p., \$5.00. Includes all the great economists from Adam Smith through Malthus and Ricardo, Karl Marx, Thorstein Veblen and Lord Keynes down to the economists now wrestling with the problems of our contemporary world.

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