

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.

AMERICAN STRATEGY IN THE ATOMIC AGE—Col. George C. Reinhardt—*University of Oklahoma Press*, 236 p., \$3.75. A student of military strategy talks here about what can be done to make war less likely.

AMIKUK—Rutherford G. Montgomery—*World Publishing Co.*, 204 p., illus., \$2.75. A book for children recounting the exciting life of a sea otter in the seas around the Aleutian Islands.

THE ANCIENT INHABITANTS OF JEBEL MOYA (SUDAN)—Ramkrishna Mukherjee, C. Radhakrishna Rao and J. C. Trevor with appendices by Frank Addison and the authors—*Cambridge University Press*, 123 p., illus., \$7.50. A study of the skeletons of the people who lived on the site in the thousand years before Christ.

ARCHAEOLOGICAL EXCAVATIONS IN MESA VERDE NATIONAL PARK, COLORADO, 1950—James A. Lancaster, Jean M. Pinkley, Philip F. Van Cleave and Don Watson — *Govt. Printing Office*, National Park Service Archaeological Research Series, Number Two, 118 p., illus., paper, \$1.00. Material found in excavations described here tell the story of the development and final disappearance of people who lived in this region from the time of Christ to 1300.

Minerals that grow from Seeds

In 1665 at the University of Wittenberg, Professor M. Schweigger showed that minerals reproduce themselves just as plants do—through seeds. "By virtue of their seminary power," he noted, "gold gives birth to gold, gems to gems, stones to stones." This theory of the *petrific seed* is one of the many fascinating attempts of man to explain geological phenomena — and you can read about thousands of other attempts in Frank Dawson Adams' huge 506-page "BIRTH AND DEVELOPMENT OF THE GEOLOGICAL SCIENCES," now offered to readers of SCIENCE NEWS LETTER at a \$2.00 saving. You'll also read early reports by Kircher on openings in the sea bottom, by Agricola on mining and metallurgical methods, by Lehman on the geology of mountains, by various authors on fossil classifications, cross-sections, the hydrologic cycle, and a thousand-odd other interesting facets of geology, geography, paleontology, and mineralogy. If you'd like to sample this fabulous treasury of early scientific investigations—representing over 500 writers from Aristotle to Lyell—at our risk, send \$1.95 for your paperbound copy to Dover Publications, Dept. 31, 920 Broadway, N. Y. 10, N. Y. You not only save 50% of the cloth edition price, but you also have the privilege of returning your copy for a full and immediate cash refund if you don't like the book as much as we think you will. 92 illustrations. Edition limited—write TODAY!

ARMOUR RESEARCH FOUNDATION ANNUAL REPORT FOR THE FISCAL YEAR ENDING AUGUST 31, 1954—Haldon A. Leedy, director — *Armour Research Foundation*, 56 p., illus., paper, free upon request direct to publisher, Technology Center, 10 West 35th St., Chicago 16, Ill.

BINOCULARS, TELESCOPES AND TELESCOPIC SIGHTS: How They Work, How to Select Them, and How to Design and Build Your Own — Truman Henson — *Greenberg*, 515 p., illus., \$9.50. Practical instructions for the amateur who wants to build his own instrument, but also enough elementary optics so that he can understand what he is doing.

CONTRIBUTIONS TO PLANT ANATOMY—Irving W. Bailey — *Chronica Botanica*, 259 p., illus., \$7.50. A selection of papers made by the author himself.

CREATIVE HANDICRAFT: Teaches Students to Think and to Plan—Ira C. Madden—*Goodheart-Willcox*, 224 p., illus., \$3.75. Projects for the elementary school shop and how to use the tools involved.

CULTURAL ANTHROPOLOGY—Melville J. Herskovits — *Knopf*, 569 p., illus., \$6.50. An abridged edition bringing up to date the author's basic work, "Man and His Works."

CURRICULUM GUIDE FOR TEACHERS: A Curriculum Devised by the Training School Faculty — Neil A. Dayton, Supt. — *Mansfield State Training School*, 92 p., paper, 50 cents. To aid in teaching those of subnormal intelligence.

A DICTIONARY OF METALLOGRAPHY — R. T. Rolfe—*Chemical Publishing Co.*, 1st American ed., 287 p., \$5.75. An encyclopedic treatment of technical terms from abrasion and absolute temperature to zirconium.

ELECTROPLATING ENGINEERING HANDBOOK—A. Kenneth Graham and H. L. Pinkerton, Eds.—*Reinhold*, 650 p., illus., \$10.00. Reference work for the electroplater and electroplating engineer.

ENGINEERS' JOB DIRECTORY—Oliver P. Bardes — *Decision*, 36 p., paper, \$2.25. Listing principal employing companies and giving the products they manufacture, addresses and names of persons to whom to apply for employment.

EVOLUTION OF THE VERTEBRATES: A History of the Backboned Animals Through Time — Edwin H. Colbert—*Wiley*, 479 p., illus., \$8.95. A text for the general student on vertebrate paleontology.

FACTORIAL ANALYSIS FOR NON-MATHEMATICIANS — C. J. Adcock — *Melbourne University Press (Cambridge University Press)*, 88 p., illus., \$3.00. For the psychology student who is terrified by mathematics texts.

THE FOSSIL EVIDENCE FOR HUMAN EVOLUTION: An Introduction to the Study of Paleoanthropology—W. E. LeGros Clark—*University of Chicago Press*, 181 p., illus., \$6.00. Presenting some of the main sources of evidence and examining the conclusions that might be drawn from them. The author, a leader in the field, is professor of anatomy at the University of Oxford.

FUNDAMENTAL RESEARCH IN WATER POLLUTION ABATEMENT AT MELLON INSTITUTE—Richard D. Hoak—*Mellon Institute*, 17 p., paper, free upon request direct to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

GLASS REINFORCED PLASTICS—Phillip Morgan, Ed.—*Philosophical Library*, 248 p., illus., \$10.00. Contributions on varied aspects of the subject brought together from not easily available sources.

HEALTH SUPERVISION OF YOUNG CHILDREN: A Guide for Practicing Physicians and Child Health Conference Personnel—Committee on Child Health of APHA — *American Public Health Association*, 179 p., illus., paper, \$2.00. An aid to keeping the child in good health, mentally as well as physically.

HIGHER TRANSCENDENTAL FUNCTIONS: Volume III—Based in part on Notes Left by Harry Bateman and compiled by the Staff of the Bateman Manuscript Project—*McGraw-Hill*, 292 p., \$6.50. The final volume of this unique reference work.

THE HUMAN ORGANISM — Russell Myles De Coursey—*McGraw-Hill*, 550 p., illus., \$5.75. A text integrating anatomy and physiology for the liberal arts student.

INDUSTRIAL AUTOMATIC CONTROLS — Millard H. LaJoy—*Prentice-Hall*, 278 p., illus., \$6.65. A beginning text for a college course. A representative group of applications is described.

INDUSTRIAL FERMENTATIONS: Volume II — Leland A. Underkoffler and Richard J. Hickey, Eds.—*Chemical Publishing Co.*, 578 p., illus., \$12.00. A compilation of modern industrial practices covering particularly the manufacture of vitamins, enzymes and the new antibiotics.

LAND-USE IN THE RAMAH AREA OF NEW MEXICO: An Anthropological Approach to Areal Study—John L. Landgraf—*Peabody Museum*, Reports of the Ramah Projects, Report No. 5, 98 p., illus., paper, \$1.65. Describing some of the changes which took place in a small area of western New Mexico between 1871 and 1941.

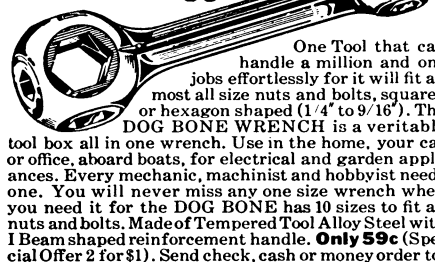
THE LANGUAGE OF SOCIAL RESEARCH: A Reader in the Methodology of Social Research—Paul F. Lazarsfeld and Morris Rosenberg, Eds.—*Free Press*, 590 p., illus., \$6.75. A teaching aid in the training of social scientists, and a point of departure for development of the field.

LANGUAGE AND SOCIETY — Joseph Bram — *Doubleday*, *Doubleday Short Studies in Sociology*, 66 p., paper, 95 cents. An introductory but systematic treatment.

A MANUAL OF PAPER CHROMATOGRAPHY AND PAPER ELECTROPHORESIS — Richard J. Block, Emmett L. Durrum, Gunter Zweig and others — *Academic*, 484 p., illus., \$8.00. A practical manual summarizing proved procedures employing simple equipment and available reagents.

MARVELS OF INDUSTRIAL SCIENCE—Burr W. Leyson, *Dutton*, 189 p., illus., \$3.50. The information necessary so that we may put industry's new products to the uses for which they are best suited.

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MEETING THE COSTS OF MEDICAL CARE — Robert M. Cunningham, Jr. — *Public Affairs Committee*, Public Affairs Pamphlet No. 218, 28 p., illus., paper, 25 cents. Explaining to the individual the advantages of hospitalization and medical care plans and what they do not cover.

METEOR ASTRONOMY—A. C. B. Lovell—*Oxford University Press*, 463 p., illus., \$9.60. Does not include the subject of meteor physics, left for a future complementary volume, nor any discussion of meteorites.

NEW APPROACHES TO INDUSTRIAL HUMAN RELATIONS—Wallace F. Bennett and others—*American Management Association*, 32 p., paper, \$1.25. Articles of inspiration and specific help for personnel workers.

NEW PRACTICAL FORMULARY—Mitchell Freeman—*Chemical Publishing Co.*, 376 p., \$7.95. A book of recipes for use in industry, the laboratory and the home.

ORGANIZING THE PERSONNEL FUNCTION EFFICIENTLY: Two Company Histories—H. W. Botruff and others—*American Management Association*, 33 p., paper, \$1.25.

PATENT LAW IN THE RESEARCH LABORATORY—John Kenneth Wise—*Reinhold*, 145 p., \$2.95. Telling the industrial research worker how patent rights may be acquired, preserved, or lost by his ordinary daily conduct.

PRACTICAL WORSTED COMBING—T. F. Griffin—*Chemical Publishing Co.*, 169 p., illus., \$4.00. Useful to those actually employed on or having access to the machines.

PROCEEDINGS OF SYMPOSIUM ON 25 YEARS OF PROGRESS IN MAMMALIAN GENETICS AND CANCER—Elizabeth Shull Russell, Ed.—*Roscoe B. Jackson Memorial Laboratory*, 851 p., illus., paper,

limited quantity free upon request direct to publisher, Bar Harbor, Maine.

PROTO-LIMA: A Middle Period Culture of Peru—A. L. Kroeber—*Chicago Natural History Museum*, Fieldiana: Anthropology, Volume 44, Number 1, 157 p., illus., paper, \$4.00. A delayed report of an expedition to Peru in 1925 and 1926.

QATABAN AND SHEBA: Exploring the Ancient Kingdoms on the Biblical Spice Routes of Arabia—Wendell Phillips—*Harcourt, Brace*, 362 p., illus., \$5.00. Here, the author states, is the story of a dream, but the attainment of such a dream, he warns, may bring "the torture of split lips, swollen tongues, frozen fingers, dysentery, fever, heartbreak, and monotony."

THE ROMANCE OF TREES IN FACT AND FANCY—Mary Funk Hazel—*Mary Funk Hazel*, 117 p., illus., paper, \$2.50. For the nature lover and student of trees. Illustrated with lovely photographs.

SELECTED BIBLIOGRAPHY ON ALGAE: Number Three—*Nova Scotia Research Foundation*, 74 p., paper, free upon request direct to publisher, Dennis Building, Granville Street, Halifax, N. S. Including besides utilization of this plant, sections on biological, botanical, and ecological studies and on the chemical structure of seaweed extracts.

SOCIAL SCIENCE RESEARCH COUNCIL ANNUAL REPORT 1953-1954 Pendleton Herring, president—*SSRC*, 98 p., paper, free upon request direct to publisher, 230 Park Ave., New York 17, N. Y.

SOCIAL ORGANIZATION — Scott A. Greer — *Doubleday*, Double Short Studies in Sociology, 68 p., paper, 95 cents. A brief text formulating some laws of organization.

SURFACE COATINGS AND FINISHES — Philip L. Gordon and George J. Dolgin—*Chemical Publishing Co.*, 299 p., illus., \$9.00. Paint and varnish technology has progressed from an empirical art to a relatively exact science.

WHY NOT SURVIVE? — Michael W. Straus — *Simon and Schuster*, 272 p., illus., \$4.00. The author, former U. S. Commissioner of Reclamation, believes we do have enough natural resources to meet the growing needs of our improving standard of living.

THE YEARBOOK OF THE INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS 1954—*International Council of Scientific Unions*, 81 p., paper, 5 s.

YOUTH'S OUTLOOK ON THE FUTURE: A Cross-National Study—James M. Gillespie and Gordon W. Allport—*Doubleday*, *Doubleday Papers in Psychology*, 61 p., paper, 85 cents. A study of the worries, hopes and problems of college students. Most youth regard war as needless and preventable. They are, however, pessimistic as to the possibility of avoiding a third world conflict.

Science News Letter, March 12, 1955

MEDICINE

Bloodsuckers Produce Anti-Clotting Agent

➤ FINGERTIP SIZED glands in the mouths of bloodsucking lampreys secrete an anti-blood clotting chemical which scientists hope can be put to work helping humans troubled with blood that clots too readily and causes strokes, coronary thrombosis and some other conditions.

Discovery of this lamprey chemical was announced by Dr. George Y. Shinowara of Ohio State University under a grant from the American Cancer Society.

Science News Letter, March 12, 1955



NEIGHBORS PRAISE HIS ARTICLES

"As a 'buy-product' of my N.I.A. Training, I have received \$73.00 for articles from *Autobody* and the *Reconditioned Car*. The local weekly printed one of my articles and asked for more. When neighbors stop you to say they read your piece, there's nothing like it." — George R. Maire, 114 9th St., Laurel Gardens, Pa.

WHY CAN'T YOU WRITE?

It's much simpler than you think!

SO many people with the "germ" of writing in them simply can't get started. They suffer from inertia. Or they set up imaginary barriers to taking the first step. Many are convinced the field is confined to persons gifted with a genius for writing.

Few realize that the great bulk of commercial writing is done by so-called "unknowns." Not only do these thousands of men and women produce most of the fiction published, but countless scientific papers, articles on science, books, business, sports, hobbies, travel, local, club and church activities, etc., as well.

Such material is in constant demand. Every week thousands of checks for \$25, \$50 and \$100 go out to writers whose latent ability was perhaps no greater than yours.

The Practical Method

Newspaper work demonstrates that the way to learn to write is by writing! Newspaper copy desk editors waste no time on theories or ancient classics. The story is the thing. Every copy "cub" goes through the course of practical criticism—a training that turns out more successful authors than any other experience.

That is why Newspaper Institute of America bases its writing instructions on the Copy Desk Method. It starts and keeps you writing in your own home, on your own time. And upon the very same kind of actual assignments given daily to metropolitan reporters. Thus you learn by doing, not by studying the individual styles of model authors.

Each week your work is analyzed constructively by practical writers. Gradually they help to clarify your own distinctive style. Writing soon becomes easy, absorbing. Profitable, too, as you gain the "professional" touch that gets your material accepted by editors. Above all, you can see constant progress week by week, as your faults are corrected and your writing ability grows.

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A new book by H. A. Murray, M.D., author of *The Golf Secret* (see above).

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