

# 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 CANCER RESEARCH, VOL. 1—Jesse P. Greenstein and Alexander Haddow, Eds.—*Academic Press*, 590 p., illus., \$12.00. The first of an annual series reporting recent discoveries.

ANIMALS UNDER YOUR FEET—Ivah Green—*Laurel Publishers (Grosset & Dunlap)*, 129 p., illus., \$2.75. Contains 17 true-life stories for children.

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AUGUSTINE TO GALILEO: The History of Science A.D. 400-1650—A. C. Crombie—*Falcon Press (British Book Centre)* 436 p., illus., \$9.00. Science and scientific thought in the period between the classical and the modern world.

BOB WHITE—R. W. Eschmeyer—*Fisherman*, 50 p., illus., paper 50 cents, cloth \$1.50. The story of a quail.

BUILDING AMERICA'S HEALTH: Vol. 2, America's Health Status, Needs and Resources—President's Commission on the Health Needs of the Nation—*Government Printing Office*, 320 p., paper, \$1.25. The basis for the conclusions and recommendations reported in the first volume.

BUILDING AMERICA'S HEALTH: Vol. 3, America's Health Status, Needs and Resources—A Statistical Appendix—President's Commission on the Health Needs of the Nation—*Government Printing Office*, 299 p., paper, \$1.50. Statistics on health personnel and facilities, and on the utilization of health services.

CELLULOSE: The Chemical That Grows—William Haynes—*Doubleday*, 386 p., illus., \$4.00. From the age of Marco Polo to the present, the history of this source material of rayon, paper, lacquer, plastics, etc., is traced in both fact and legend.

COMPARATIVE CONDITIONED NEUROSES—Edward J. Kempf, et al., Eds.—*New York Academy of Sciences*, Vol. 56. Art. 2, 239 p., illus., paper, \$3.50. Discusses the principles of nervous breakdown, the dynamics of conditioning neuroses, the adjustment patterns in schizophrenic patients, etc.

DEMOCRACY BEGINS IN THE HOME—Ernest Osborne—*Public Affairs Committee*, No. 192, 28 p., illus., paper, 25 cents. Suggestions for parents to get their children to accept responsibility.

EVALUATING RESEARCH AND DEVELOPMENT: Annotated Proceedings of a Conference of Research Administrators Held on the Campus of the University of California, May 10, 1952—Irving R. Weschler and Paula Brown, Eds.—*Institute of Industrial Relations*, 104 p., paper, \$1.65. Explores the influence of certain human variables on productivity.

FREDDY FOX SQUIRREL—R. W. Eschmeyer—*Fisherman*, 49 p., illus., paper 50 cents, cloth \$1.50. For children, this emphasizes the principles of sound game management.

FROM LODESTONE TO GYRO-COMPASS—Capt. H. L. Hitchins and Comdr. W. E. May—*Philosophical Library*, 219 p., illus., \$4.75. A non-technical book on this navigation device.

GENERAL COLLEGE CHEMISTRY—Frank Brescia—*Blackiston*, 581 p., illus., \$6.00. For the first year college science and engineering student.

GROUP PSYCHOTHERAPY: Studies in Methodology of Research and Therapy—Florence B. Powdermaker and Jerome D. Frank—*Harvard*, 615 p., \$6.50. Report of a group psychotherapy research project of the U. S. Veterans Administration.

HORMONAL AND NEUROGENIC CARDIOVASCULAR DISORDERS: Endocrine and Neuro-Endocrine Factors in Pathogenesis and Treatment—Wilhelm Raab — *Williams & Wilkins*, 722 p., illus., \$15.00. Bridges the gap between the field of endocrinology and the field of clinical cardiology.

HOW TO PASS ANNAPOLIS & WEST POINT ENTRANCE EXAMS—Paul R. Copeland—*Arco*, 160 p., illus., \$3.50. A study and information guide for military-minded young men.

MINERALS: A Key To Soviet Power—Demetri B. Shimkin—*Harvard*, 452 p., \$8.00. A survey of the resources, production and consumption position of the U.S.S.R. and its potentialities.

NATIVE ASTRONOMY IN THE CENTRAL CAROLINES—Ward H. Goodenough—*University of Pennsylvania Press*, 46 p., illus., paper, 75 cents. Most of the star names and positions are common to the entire Caroline group.

OUT OF MY LIFE AND THOUGHT: With Postscript 1932-1949—Albert Schweitzer—*New American Library*, 216 p., paper, 35 cents. The autobiography of a great medical missionary.

PALEOZOIC AND MESOZOIC ARACHNIDA OF EUROPE—Alexander Petrunkevitch—*Geological Society of America*, Memoir 53, 128 p., illus., \$3.00.

PHYSICAL CHEMISTRY FOR COLLEGES: A Course of Instruction Based upon the Fundamental Laws of Chemistry—E. B. Millard—*McGraw-Hill*, 7th ed., 618 p., illus., \$6.00. Revised to include new material, illustrations and problems.

PHYSICAL CHEMISTRY OF METALS—Lawrence S. Darken and Robert W. Gurry—*McGraw-Hill*, 535 p., illus., \$8.50. A chemical thermodynamics text for the metallurgy student.

POTTERY: Getting Started in Ceramics—Delmar W. Olson—*Laurel Publishers (Grosset & Dunlap)*, 113 p., illus., \$4.95. Step-by-step procedure for the beginner.

PREHISTORIC BRITAIN—Jacquetta and Christopher Hawkes—*Harvard*, 280 p., illus., \$3.50. Life in Britain from the first traces of Paleolithic Man to the Roman Conquest of Claudius as revealed by archaeology.

PROBLEMS OF INFANCY AND CHILDHOOD—Milton J. E. Senn, Ed.—*Josiah Macy, Jr. Foundation*, 160 p., \$2.50. Papers given at the Sixth Conference, dealing with emotional development and individual tendencies in the first year of life, etc.

ROCKET AWAY!—Frances Frost—*Whittlesey*

## YOUR SKIN AND ITS CARE

By H. T. Behrman M.D., and O. L. Levin, M.D.

Two dermatologists give you the up-to-date scientific facts. They tell you in detail exactly what to do to beautify and improve your skin, how to avoid or correct skin disorders, and how to deal with many skin problems as: Daily care of the face—allergies—cosmetics—pimples—blackheads—acne—whiteheads—cysts—boils—oily skin—dry skin—chapping—poison ivy—cold sores—hives—superfluous hair—ringworm—moles—birthmarks—scars—warts—tumors—skin cancer—excessive sweating—etc.

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"Accurate, unvarnished story of practical skin care."—*Connecticut State Medical Journal*.

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*House*, 48 p., illus., \$2.00. A space adventure to the moon for the 6- to 10-year-olds.

SPORTSMAN'S DIGEST OF FISHING—Hal Sharp—*Sterling*, 253 p., illus., \$1.50. Contains practical information for the fisherman.

THE STARS ARE YOURS—James S. Pickering—*Macmillan*, rev. ed., 298 p., illus., \$3.95. Explains astronomy, emphasizing the objects you can see without a telescope, and avoiding involved scientific terminology and higher mathematics.

A THIRD CENTURY HOARD OF TETRADRACHMS FROM GORDION—Dorothy H. Cox—*University of Pennsylvania Press*, 28 p., illus., paper, 75 cents. Excavations at Gordion in 1951 unearthed 114 silver coins which are indexed here.

THIRTEEN AMERICANS: Their Spiritual Autobiographies—Louis Finkelstein, Ed.—*Harper*, 296 p., \$3.00. Includes chapters on Edwin G. Conklin, Henry N. Russell and Basil O'Connor.

Science News Letter, April 4, 1953

FORESTRY

**Scientist Hunts for Abnormal Pine Trees**

➤ DR. BRUCE ZOBEL, geneticist with the Texas Forest Service, has sounded a call for pine trees with abnormal cone development.

Certain types of cone abnormalities can be used, he explains, as a source of controlled hybrid seed, now much in demand among foresters and geneticists, particularly those in southern states.

Pines most needed are those bearing large numbers of female cones on each branch, instead of the usual one to five cones. Of particular interest, also, are so-called male sterile pines which produce abundant female cones but on which no pollen-bearing cones are produced.

Most interesting of all types of pines for hybrid research would be those described above that produce the same abnormality each year, showing it to be genetic in nature, rather than merely an isolated physiological abnormality.

Science News Letter, April 4, 1953

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PHYSICS

**Sun-Heated Houses**

➤ SCIENTISTS ARE trying to capture the energy in sunlight and harness it to everyday living in America. But so far, big, black clouds seem to be darkening the sunny outlook for fuelless cars, furnaceless houses and coalless power plants.

From Ohio State University, Dr. J. Allen Hynek sounds the warning that it is "high time" science began learning how to use the sun as a source of industrial power. He points out that coal, oil and gas supplies will not last forever.

The fuel reserves will be lost "many millions of years before any very great change occurs in the sun's radiation," he said.

Dr. Hynek suggests that a tower-mounted black hemisphere could collect heat from the sun to supply modest amounts of power at a relatively small cost. Mirrors, spotted over several acres of land, would catch the sun rays and focus them on the black half-ball.

In open, semi-arid regions, heat captured by the hemisphere would be enough to boil water. The resulting steam presumably could be piped into a small electric generator or fed into home radiators.

R. S. Dill, chief of the heating and air conditioning section of the National Bureau of Standards, said solar heating of houses has been satisfactorily demonstrated as far north as Boston, but pointed out that solar

heating plants probably would be too expensive for widespread use.

The heating system might also detract from the looks of the house, as well as require that a room or part of the basement be made a heat reservoir in which heat could be stored in the day for use at night.

Solar-electric power stations probably could not produce power in quantity as cheaply as hydro-electric and steam plants produce it today.

Such solar-electric plants would have another disadvantage: they would supply the maximum amount of electric power about noon, whereas the peak power demand comes just after dark when electric stoves, house lights, store signs and television sets are switched on.

Commercial electric power is generated to be consumed instantly. It cannot be stored.

Science News Letter, April 4, 1953

TECHNOLOGY

**"Brain" for Rent—\$11,900 Per Month**

➤ "BRAIN" FOR rent—for \$11,900 or more per month, you can buy the computing time of the first production model of the "701" calculator just put into operation in New York.

It will not replace or substitute for the human brain, but it will perform routine computations to solve such problems as calculating the radiation effects in atomic energy, and the design of steam and gas turbines. First of 12 or more scheduled for production this year, the "701" was built by International Business Machines Corporation in Poughkeepsie, N. Y.

The "brain" can perform more than 16,000 addition or subtraction operations a second, and more than 2,000 multiplication or division operations a second.

Science News Letter, April 4, 1953

**Questions**

AERONAUTICS—Why do jet pilots need an instant warning of engine failure? p. 212.  
• • •

DENTISTRY—What chemicals are responsible for tooth growth and eruption? p. 216.  
• • •

MEDICINE—What are the clues to pre-leukemia? p. 214.  
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METEOROLOGY—How will weather maps of future be made? p. 215.  
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PHOTOGRAMMETRY—How is map making being revolutionized? p. 213.  
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PSYCHIATRY—What is the present state of Soviet psychiatry? p. 212.  
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PUBLIC SAFETY—How many accidents are caused each year by bathtubs? p. 213.  
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Photographs: Cover and p. 211, Fremont Davis; p. 213, North American Aviation, Inc.; p. 214, University of Wisconsin; p. 215, Goodyear Tire & Rubber Co.; p. 218, The Scientific Monthly; p. 224, Eastman Chemical Products, Inc.

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