

Books of the Week

TO SERVE YOU: To get books, send us a check or money order to cover retail price. Address Book Dept., SCIENCE NEWS LETTER, 1719 N St., N. W., Washington 6, D. C. Ask for free publication direct from issuing organization.

AS YOU PASS BY—Kenneth Holcomb Dunshee—*Hastings House*, 170 p., illus., \$10.00. Restoring in its beautifully illustrated pages the New York of years gone by.

THE ASTOUNDING SCIENCE FICTION ANTHOLOGY—John W. Campbell, Jr., Ed.—*Simon and Schuster*, 583 p., \$3.95. The editor, who also edits "Astounding Science Fiction" magazine, has picked his personal favorites for this anthology.

THE ASTRONOMICAL UNIVERSE: An Introductory Text in College Astronomy—Wasley S. Krogdahl—*Macmillan*, 599 p., illus., \$6.25. A text without mathematics for general students as well as future astronomers.

BRUISING, FREEZING, AND CHEMICAL INJURY OF POTATOES IN TRANSIT—R. C. Wright—*Govt. Printing Office*, Rev. ed., Technical Bulletin No. 668, 21 p., illus., paper, 15 cents. Much of the injury attributed to other causes is really due to bruising.

CASE HISTORIES IN PSYCHOSOMATIC MEDICINE—Henry H. W. Miles, Stanley Cobb and Harley C. Shands, Eds.—*Norton*, 301 p., illus., \$4.50. Describing cases that are typical of psychosomatic difficulties and indicating how psychiatrist and internist can work together in the study and treatment of disease.

HISTORY OF AMERICAN PSYCHOLOGY

by A. A. Roback

Here is the first history of American Psychology ever to appear, showing through development stages how this vastly significant aspect of human study reached its present importance. The volume presents an over-all picture covering three centuries, including the numerous divisions and activities of the powerful American Psychological Association.

Author of more than twenty books on human behaviour (many translated into foreign languages), and as one who stood close to the chief architects of the science, Dr. Roback naturally possesses much first-hand information. The ever-growing importance of the subject to students, researchers, psychologists, and intelligent laymen renders this an invaluable tool for study, reference, and genuine interest. Copiously illustrated. \$6.00

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LIBRARY PUBLISHERS

8 West 40th St., New York 18, N. Y.

COMPOSITION OF FOODS USED IN FAR EASTERN COUNTRIES—Woot-Tsuen Wu Leung, R. K. Pecot and B. K. Watt—*Govt. Printing Office*, USDA Agriculture Handbook No. 34, 62 p., paper, 30 cents. Provides a table showing amounts of 11 nutrients in 362 foods, only about half of which are familiar in the Western world. An extensive bibliography is included.

EFFECTS OF EXTERNAL BETA RADIATION—Raymond E. Zirkle, Ed.—*McGraw-Hill*, 242 p., illus., \$3.25. Reports of work carried out at Clinton Laboratories, Oak Ridge, as part of an intensive radiobiological program.

ESSAY IN PHYSICS—Herbert L. Samuel—*Harcourt, Brace*, 178 p., \$3.00. A philosopher presents a new view of the physical world. He restores the ether in a new form. A letter of comment by Einstein is included.

FACTOR ANALYSIS: An Introduction and Manual for the Psychologist and Social Scientist—Raymond B. Cattell—*Harper*, 462 p., \$6.00. An introductory text for undergraduates and also a handbook in the computation laboratory.

FIRE RESISTANCE OF SHUTTERS FOR MOVING-STAIRWAY OPENINGS—Noland D. Mitchell, Edward D. Bender and James V. Ryan—*Govt. Printing Office*, 9 p., illus., paper, 10 cents. Reporting tests conducted at the National Bureau of Standards.

FOUNDATIONS OF WORLD ORGANIZATION: A Political and Cultural Appraisal—Lyman Bryson, Louis Finkelstein, Harold D. Lasswell and R. M. MacIver—*Harper*, 498 p., \$4.00. Papers prepared for the eleventh meeting of the Conference on Science, Philosophy and Religion in Their Relation to the Democratic Way of Life as a new attempt to find the way to international understanding and peace.

HIGHER EDUCATION IN THE UNITED STATES: A Summary View—Francis Millet Rogers—*Harvard University Press*, 54 p., illus., paper, 75 cents. A revised version of what was originally intended to acquaint Brazilians with the U. S. way of organizing higher education.

MAN, MONEY, AND GOODS—John S. Gamba—*Columbia University Press*, 339 p., illus., \$3.75. Intended to appeal to the general reader and clarify economics for him without puzzling or repelling him.

MANDL'S TELEVISION SERVICING — Matthew Mandl—*Macmillan*, 421 p., illus., \$5.50. For radio service men preparing to service television and to serve as a ready reference of common troubles for television workers.

THE MUTUAL SECURITY PROGRAM: For a Strong and Free World—*Mutual Security Agency*, 81 p., illus., paper, free upon request to publisher, Office of Information, 806 Connecticut Ave., N. W., Washington 25, D. C. Describing the workings of NATO, Technical Assistance, and other programs throughout the free world and intended to keep it free.

OPPORTUNITIES FOR THE CONTINUATION OF EDUCATION IN THE ARMED FORCES: Findings and Recommendations of the USAFI Evalu-

ation Study, 1951—W. W. Charters, Director—*American Council on Education*, 72 p., illus., paper, 50 cents. Students in the U. S. Armed Forces Institute range in age from 16 to 57 years and in previous schooling from second grade to the doctor's degree.

PORK PRODUCTION—William W. Smith and L. M. Hutchings—*Macmillan*, 3d ed., 616 p., illus., \$5.50. Practical help for hogmen and students.

PRACTICAL APPLICATIONS OF DEMOCRATIC ADMINISTRATION—Clyde M. Campbell, Ed.—*Harper*, 325 p., \$3.00. The democratic way of life, the author points out, is more difficult to learn than are authoritarian ways. This book is intended to aid teachers and school officials in preparing young people to take their parts in a democracy.

REPORT OF THE COMMITTEE ON A TREATISE ON MARINE ECOLOGY AND PALEOECOLOGY 1950-1951—Harry S. Ladd, Chairman—*National Research Council*, 83 p., paper, \$1.00. It is planned to send the completed treatise to the publisher in 1952.

THE SINGLE WOMAN OF TODAY: Her Problems and Adjustment—M. B. Smith—*Philosophical Library*, 130 p., \$2.75. There are some one and a half million unmarried women in England today. This book discusses their psychological and social problems and has some not too satisfactory suggestions on how they may find happiness.

THE STARS: A New Way to See Them—H. A. Rey—*Houghton Mifflin*, 144 p., illus., \$4.00. With the aid of the star charts in this book, you can really make out the man with the club in the constellation Hercules, the winged horse in Pegasus and so may come to recognize these and other familiar figures in the sky.

THE THEORY OF ISOTOPE SEPARATION AS APPLIED TO THE LARGE-SCALE PRODUCTION OF U₂₃₅—Karl Cohen—*McGraw-Hill*, 165 p., \$2.00. Reports issued by the theoretical division of the SAM laboratories and its antecedents covering work done from 1940 to 1945 plus new material from outside sources.

TRAUMA, GROWTH, AND PERSONALITY—Phyllis Greenacre—*Norton*, 328 p., \$4.50. A series of psychoanalytic studies, all but one previously published in journals, relating to the influence of birth, neonatal and early childhood experiences on personality.

UNDERSTANDING HEREDITY: An Introduction to Genetics—Richard B. Goldschmidt—*Wiley*, see page 207

The Heavens Are Telling

THE STORY OF THE SKY, BY URANA CLARKE

A treasure house of easy-to-understand information for parents, their inquisitive children, and beginning astronomers. Simply and accurately this profusely illustrated book explains in non-technical terms the great mysteries of the heavens. Enlightening chapters on sun, moon, eclipses, planets, comets, meteors, constellations, time, tide, weather. Brief biographies of early astronomers. Sky charts and directions for a study of the sky every season of the year.

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AERONAUTICS

Story Of Plane Crash

► EVERY PLANE should carry instruments in its tail which would tell the whole story of a fatal crash landing.

This was the recommendation of Dr. Edward J. Baldes of the Mayo Clinic and James J. Ryan of the department of mechanical engineering of the University of Minnesota and the Aeronautical Research Laboratories of General Mills, Minneapolis.

"First of all," they said, in considering what to do about reducing deaths in crash landings, "we must be able to reconstruct the events leading up to aircraft destruction. Too frequently there is little or no evidence to separate the human, mechanical and natural factors in the failure."

They spoke at the three-day meeting of the Aero Medical Association in Washington.

Despite possible opposition of pilots who might not agree to a permanent and continuous check on their flight patterns, the two scientists recommended that up to one per cent of the cost of the plane should be spent on such instrumentation. In case of accident, they pointed out, the instruments in the tail could be recovered and would provide data for immediate statistical analysis.

"Suppose the plane in which you are about to fly is destined to crash," the two men said. "What features would you like built into that plane which might increase your chance of survival?"

They listed these points: The forward one-third of the fuselage should be utilized to absorb the energy of an impact crash and the construction should be so strong that the deceleration provided by the impact will be less than humans can tolerate. Parachutes from the tail of the plane might be used to lessen the impact. For forced belly landings, the under portion of the fuselage should have the flexibility to absorb the impact.

Seats, the most important factors inside the plane, should face backward, where the standard seat belt might suffice, or, if

facing forward, they must have specially constructed seat belts and harness and might be connected to vertical supports which are attached as integral members of the tubular structure of the fuselage.

After proper construction has been integrated into a plane, proper fire protection must be provided.

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INVENTION

More Natural Tasting Frozen Orange Juice

► BETTER TASTING and more "natural" frozen concentrated orange juice results from an invention which received patent number 2,588,337. George Sperti, Cincinnati, is the inventor and he has assigned his patent to the Institutum Divi Thomae Foundation, a non-profit corporation of Cincinnati. The fresh juice, according to the patent, is first concentrated by freezing. The ice is then separated from the concentrate, thawed and evaporated. The soluble solids, including pulp and sugars, are recovered and put back with the concentrate.

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Books of the Week

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228 p., illus., \$3.75. Intended to serve as a text for students who will not specialize in genetics and also to inform the general reader who wants to know the truth about the strange claims' being made in this field.

THE UNITED STATES NATIONAL MUSEUM ANNUAL REPORT FOR THE YEAR ENDED JUNE 30, 1951—*Smithsonian*, 112 p., illus., paper, free upon request to publisher, Washington 25, D. C. Originally, a "national cabinet of curiosities," the museum now houses not only exhibits for the delight of tourists but a reference collection for students—altogether 32,617,298 specimens.

THE UNIVERSE AND DR. EINSTEIN—Lincoln Barnett—*New American Library*, 140 p., illus., paper, 35 cents. An account for laymen of the relativity theory. Originally published by William Sloane Associates.

WHEN DOCTORS ARE PATIENTS—Max Pinner and Benjamin F. Miller, Eds.—*Norton*, 364 p., \$3.95. A series of autobiographical accounts of the battles of physicians with their own illnesses, including, among others, heart disease, cancer, psychosis, multiple sclerosis and old age.

ZOOLOGY IN POSTAGE STAMPS—W. Dennis Way and O. D. Standen—*Philosophical Library*, 113 p., illus., \$5.00. Describing the members of the animal kingdom that have the distinction of being portrayed on postage stamps.

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● RADIO

Saturday, April 5, 1952, 3:15-3:30 p.m. EST

"Adventures in Science," with Watson Davis, director of Science Service, over Columbia Broadcasting System.

Dr. Byron T. Shaw, administrator of the Department of Agriculture's Agricultural Research Administration, discusses "Food for Our Future People."

The year 1951 is a *prime number*, divisible only by itself and 1; likewise 5711, the same year according to Hebrew calculations, is a prime number.

ARE YOU LOSING YOUR HEARING?

Check These Danger Signs It May Save You a World of Trouble and Unhappiness

Do you now have trouble understanding folks whom you used to hear clearly?

Do you hear better where it's noisy than where it's quiet?

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Is it hard to hear the difference between fifteen and fifty—then and ten—and life and knife or other sound-alike words?

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Do you feel a growing suspicion that folks are ridiculing you behind your back?

If you must say "yes" to any of the above, you may already have a serious hearing loss. That's how deafness often comes—creeps up so gradually you may be quite deaf before you realize what is causing all your discomfort and inconvenience.

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