

Books of the Week

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BOOKKEEPING MADE EASY with a Section on Business Mathematics—Alexander L. Sheff—Barnes & Noble, 310 p., illus., paper, \$1.50. Explains the principles of bookkeeping and accountancy, and gives detailed explanations of routine tasks.

COLLIER'S 1966 YEAR BOOK: Covering the Year 1965—Jean Paradise, Ann Hurley Trabulsi, and others, Eds.—Crowell Collier, 640 p., photographs, \$10. Features special articles on earthquakes, Latin America, the water crisis, quasars and the blackout, and covers worldwide events in science, economics, politics, the arts and sports.

THE COMING WATER FAMINE—Jim Wright—Coward-McCann, 255 p., \$5. Congressman Wright, a member of the House Public Works Committee, gives an eloquent account of the nature and extent of usable water shortage in the U.S. and offers a workable program for public action to combat it.

COMMUNICATION FOR MODERN MANAGEMENT—J. Barron Wiley—Business Press, 327 p., illus., \$12.50. Reviews a wide range of audio-visual methods and materials for different types of industrial communication.

COMPTON'S DICTIONARY OF THE NATURAL SCIENCES, Vol. 1: A-N, Vol. 2: O-Z—Charles A. Ford, Ed.-in-Chief—Compton Co., 879 p., illus. in color, \$24.95. Provides specific information and definitions prepared by experts to help the nonspecialists understand the scientific vocabulary used by natural scientists. Includes 117-page glossary index, charts and tables.

THE CONCEPTS AND THEORIES OF MODERN PHYSICS—J. B. Stallo, ed. by Percy W. Bridgman—Harvard Univ. Press, 325 p., paper, \$1.95. Reprint (1960) of work first published in 1881.

CURRENT CONCEPTS OF ACID-BASE MEASUREMENT—Gabriel G. Nahas and Donald D. Van Slyke, Eds.—N.Y. Acad. of Sciences, Annals, Vol. 133, Art. 1, 274 p., illus., paper, \$6. Series of papers and discussion of acid-base measurements in vitro, acid-base disturbances in vivo, and related subjects.

THE DESIGN OF PRODUCTION SYSTEMS—Salah E. Elmaghraby—Reinhold, 491 p., diagrams, \$20. Industrial engineering textbook emphasizing the modern quantitative tools available to optimize production, inventory and distribution systems.

DIPLOMATS, SCIENTISTS AND POLITICIANS: The United States and the Nuclear Test Ban Negotiations—Harold Karan Jacobson and Eric Stein—Univ. of Mich. Press, 538 p., \$8.50. Study attempts to assess the impact of science and modern technology on the negotiating process and concepts of international organization, using the test ban negotiations and the ensuing treaty as a case study.

ENERGY AND THE ATOM: The Physical Sciences—John Gabriel Navarra and John Edward Garone—Harper, 487 p., illus., \$5.20. Text shows how matter is being investigated, its relationship to energy and life, touching on all the physical sciences; includes problems, experiments, review questions, self-testing quizzes and projects.

THE ENGLISH PARACELSIS—Allen G. Debus—Watts, F., 222 p., illus., \$5.95. A thoroughly annotated history of Paracelsus and his followers in England who besides their preoccupation with the occult laid great emphasis on chemistry as an aid to medicine.

EXCHANGE REACTIONS: Proceedings of Symposium held by the International Atomic Energy Agency at the Brookhaven National Laboratory, 1965—R. A. Marcus and others—IAEA (Nat. Agency for Int'l Pubns.), 417 p., diagrams, \$9. Subjects range from theory of electron transfer reactions to discussion of anisotropy of chemical shift tensor.

FIELD TRIPS: Ecology for Youth Leaders—Janet Nickelsburg—Burgess Pub. Co., 120 p., photographs by Helen Nestor, \$2.75. Concerning the relationship of living organisms to their environment, this guide progresses from biomes and life zones through microclimates, successions in pond community to man's position in the ecology of the land.

FOX AND THE FIRE—Miska Miles—Little, Brown, 41 p., illus. by John Schoenherr, \$3.50. A forest fire experienced through the eyes of a fox, illustrated with beautiful drawings.

THE FRIGID WORLD OF CRYOGENICS—David O. Woodbury—Dodd, 96 p., photographs, \$3.50. Describes how devices work at absolute zero, the uses of superconductive magnets, lasers, cryosurgery and liquid power.

FRONTIERS OF PSYCHOLOGICAL RESEARCH: Readings from Scientific American—Selected and introduced by Stanley Coopersmith—Freeman, 322 p., 269 illus., \$10; paper, \$4.95. Intended for introductory courses in psychology, these articles provide accounts of original investigations in modern psychological research. Includes 44-page manual of objective test items.

GENETICS OF SEXUALITY IN HIGHER FUNGI—John R. Raper—Ronald Press, 283 p., illus., \$12. This unified, authoritative and up-to-date account of the sexual phenomena of the most highly advanced sub-class of the Basidiomycetes, deals with the two incompatibility systems associated with all heterothallic members of the two-component series.

A HISTORY OF THE THEORIES OF RAIN and Other Forms of Precipitation—W. E. Knowles Middleton—Watts, F., 223 p., diagrams, \$5.95. A readable and annotated contribution to the history of meteorology, deals with the different theories about water vapor and clouds, dew, hoar frost and hail.

INSTRUMENTATION METHODS FOR PREDICTIVE MEDICINE—Thomas B. Weber and Joe Poyer, Eds.—Instrument Soc. of Am., 215 p., illus., \$12. Proceedings of the ISA Symposium on Instrumentation Methods for the Further Development of Predictive Medicine, 1965.

INTRODUCTION TO MATRICES AND LINEAR TRANSFORMATIONS—Daniel T. Finkenbeiner, II—Freeman, 2nd ed., 297 p., diagrams, \$7.75. Undergraduate text, introduces matrix algebra as a representation of the geometry of linear transformations.

MAN'S RAGE FOR CHAOS: Biology, Behavior and the Arts—Morse Peckham—Chilton Bks., 339 p., illus., \$6.95. Postulates a set of theories about art as an expression of man's creative struggle, and examines the techniques of poetry, music, painting and architecture, showing how each violates the mind's demand for order.

OCTOBER THE FIRST IS TOO LATE—Fred Hoyle—Harper, 200 p., \$3.95. Science fiction written by well-known astronomer, the plot is built around transmission of solar beams that play havoc with time on earth.

ORIGINS OF THE SCIENTIFIC REVOLUTION—Hugh Kearney—Longmans (Barnes & Noble), 159 p., paper, \$2. Reprint (1964), presents a discussion of the problems of historiography as viewed by outstanding historians and includes select documents of the 17th century with editorial comments.

PARENTS' GUIDE TO SCIENCE—Edward Edelson—Crowell, 212 p., illus., \$4.95. Designed to bring parents up-to-date on the new approach to science in modernized curricula, the book summarizes the material taught in readable form to enable parents to share and foster their children's interest in the sciences.

PESTICIDE HANDBOOK-ENTOMA 1966—Donald E. H. Frear, Ed.—College Science Publishers, rev. 18th ed., 312 p., \$4.50; paper, \$3. Lists the names, active ingredients and manufacturers of nearly 10,000 chemicals and equipment used in agricultural pest control.

PSYCHOTHERAPY AND THE PSYCHOLOGY OF BEHAVIOR CHANGE—Arnold P. Goldstein, Kenneth Heller and Lee B. Sechrest—Wiley, 472 p., \$8.95. Deals with research methods in psychotherapy, relationship research, resistance to behavior change, transfer of therapeutic learning, individual and group therapy.



Candle Glow from the Fire can truly light the world and universe
Paulsens Nursery is a 100 page book prepared through years of basic research. This book with descriptive drawings is written specifically regarding Environment Science and Physical Research as applied to life. Discusses activity, health, strength and energy through the control of the 90 elements in soil, plants and food. Features the how and why of greater crop yields. Has lifetime value. Specially priced at \$5.00 postpaid. Write Charles Paulsen, Heartwell, Nebraska 68945. Est. 1893 - Ref. 1st National Bank, Minden, Nebr.

RAISING LABORATORY ANIMALS: A Handbook for Biological and Behavioral Research—James Silvan—Natural Hist. Press, 225 p., illus. \$4.95; paper, \$1.45. Detailed information on how to collect the animals and the simplest methods for raising and keeping them. Animals covered are amoeba, paramecia, hydra, nematodes, earthworms, leeches, grasshoppers, termites, guppies, pigeons, mice, rats, guinea pigs and hamsters.

SCIENCE AND SOCIETY IN THE UNITED STATES—David D. Van Tassel and Michael G. Hall, Eds.—Dorsey Press, 360 p., paper, \$5.25. Collection of annotated essays summarizing what is known about the history of science and its relation or effects on particular institutions in the United States, includes chronology of U.S. scientific institutions.

SCIENTIFIC PROBLEMS OF THE HUMID TROPICAL ZONE DELTAS AND THEIR IMPLICATIONS: Proceedings of the Dacca Symposium—J. Tricart and others—UNESCO (Unesco Pubns. Center N.Y.), 422 p., illus., \$14. Jointly organized by the Government of Pakistan and Unesco in 1964, the symposium dealt with the geographical, geological, hydrological, pedological and biochemical character of the scientific problems posed by humid delta regions.

SIMULATION AND NATIONAL DEVELOPMENT—Andrew M. Scott with William A. Lucas and Trudi M. Lucas—Wiley, 177 p., \$5.95. Demonstrates simulation as an analytical tool in the study of social change, describes and assesses the usefulness of experiments in gaming.

THE STAMP COLLECTOR'S ENCYCLOPAEDIA—R. J. Sutton, rev. by K. W. Anthony—Philosophical Lib., 6th ed., 370 p., illus., \$10. A popular guide to more than 3,000 alphabetically arranged terms of interest to collectors.

STRATEGIC DEFENSES—Stanley L. Englebardt—Crowell, 168 p., photographs, \$4.95. A description of the U.S. defense system of radar, missiles, jet bombers, submarines and communication networks, for the general reader.

SUBJECTIVE LIMITATIONS ON PHYSICAL MEASUREMENTS—C. A. Padgham—Franklin Pub. Co., 78 p., illus., \$6. Published on behalf of the Institute of Physics and the Physical Society, this concise little book deals with measurements dependent upon visual acuity, measurements dependent on the discrimination of luminance difference, limits of sensitivity of the eye and ear, color measurement and temporal visual phenomena.

SYMMETRY PRINCIPLES AT HIGH ENERGY: Third Coral Gables Conference, 1966—Arnold Perlmutter and others, Eds.—Freeman, W. H., 282 p., illus., paper, \$6.50. Reports on investigation of the existing symmetries and of their confrontation with experiment.

THE THEORY AND PRACTICE OF PSYCHIATRY—Fredrick C. Redlich and Daniel X. Freedman—Basic Bks., 880 p., \$12.50. A modern text and source book for both student and physician, presenting a balanced overview of psychiatric theories and practices and their evolution.

UTOPIAS AND UTOPIAN THOUGHT—Frank E. Manuel, Ed.—Houghton, 321 p., \$6.50. Collection of essays by leading scholars exploring the reasons for man's long search of and failure to establish the ideal society.

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