Books of the Week

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AIAA BULLETIN, Vol. 1, No. 1—Martin Summerfield, Ed.—Am. Inst. of Aeronautics and Astronautics, 87 p., paper, 75¢ direct to publisher, 599 11th Ave., New York, N. Y. 10019. New publication replaces series of fliers and program booklets announcing scheduled meetings, including abstracts of papers to be presented.

THE ADVANCED GEOMETRY OF PLANE CURVES AND THEIR APPLICATIONS—C. Zwik-ker—Dover, 299 p., diagrams, paper, \$2. Reprint (1950), formerly titled Advanced Plane Geometry.

ADVANCES IN INORGANIC CHEMISTRY AND RADIOCHEMISTRY, Vol. 5—H. J. Emeleus and A. G. Sharpe, Eds.—Academic Press, 429 p., diagrams, \$14.50. On stabilization of oxidation states, the chemistry of gallium, chemical effects of nuclear activation, and borazines.

ANALYZER CIRCUIT ELEMENTS: A Fundamental Discussion of Transistorized Logic Circuits—Lloyd J. Austin—RIDL, 36 p., diagrams, paper, \$1 direct to Radiation Instrument Development Laboratory, 4501 W. North Ave., Melrose Park, Ill.

ANIMALS, INC.—Roy Pinney—Doubleday, 127 p., photographs by author and others, \$2.95. About animal collectors, wild animal dealers, trainers and

BIOGRAPHICAL MEMOIRS, Vol. XXXVII—National Academy of Sciences—Columbia Univ. Press, 361 p., photographs, \$5. Biographies with bibliographies of recently deceased Academy members, among them Arnold Gesell, Clyde Kluckhohn and Edward C. Tolman.

BRAIN MECHANISMS AND INTELLIGENCE: A Quantitative Study of Injuries to the Brain—K. S. Lashley, new introd. by D. O. Hebb—Dover, 200 p., illus, paper, \$1.75. Unabridged, corrected republication of original (1929) edition.

THE CHEMISTRY OF BERYLLIUM—D. A. Everest—Elsevier Pub. Co. (N. Y.), 151 p., \$8.

EXPLORE THE SKIES!

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D. Van Nostrand Company, Dept. 263, 120 Alexander St., Princeton, New Jersey (Est. (1848)

A concise account of the chemistry of beryllium metal and its compounds.

CRYSTALLIZATION OF POLYMERS—Leo Mandelkern—McGraw, 359 p., illus., \$13.50. Introduction to the nature of high polymers, with formal treatment of the kinetics of crystallization and the morphological characteristics of the crystalline state.

morphological characteristics of the crystalline state.

ESI QUARTERLY REPORT: Winter-Spring 1964
—Dan C. Pinck, Sec'y—Educational Services Inc.,
148 p., illus, paper, single copies free upon request
to publisher, 164 Main St., Watertown, Mass. 02172.
Reports on programs developed by the Physical Science
Study Committee, Elementary Science Study, Mathematics Curriculum and other projects.

FROM THE SILENT EARTH: A Report on the
Greek Bronze Age—Joseph Alsop, introd. by Sir
Maurice Bowra—Harper, 296 p., photographs by Alison Frantz, maps, \$7.50. A historical essay based on
study of the archaeological literature on Crete and
early Greece, and on a journey to Pylos with the
American field archaeologist, C. W. Blegen. It presents a new political interpretation of the archaeological record reexamined after discovery of the clay
tablets at Pylos.

THE INNER WORLD OF MENTAL ILLNESS:

THE INNER WORLD OF MENTAL ILLNESS:
A Series of First-Person Accounts of What It Was Like—Bert Kaplan, Ed.—Harper, 467 p., paper, \$3.95. Autobiographical reports of the psychotic experience, drug-induced states, and some historic statements.

nents.

INSIDE ELECTRONICS: The How and Why of Radio, TV, Stereo and Hi-Fi—Monroe Upton—Devin-Adair, 262 p., diagrams, \$5.95. An introduction to the fundamentals of radio, TV and hi-fi in language the intelligent layman can understand.

MEET THE MAMMALS—C. H. Keeling, foreword by Brian Vesey-Fitzgerald—Watts, F., 246 p., illus., by David Pratt, \$3.95. Stories about the habits and background of zoo animals.

MICROMANIPULATORS AND MICROMANIPU-LATION—Hamed M. El-Badry—Academic Press, 335 p., illus., \$15. Offers a wide survey of the various instruments, manipulative and related techniques, with examples of applications in a variety of fields of science and technology.

MODERN SCIENCE DICTIONARY: Astronomy, Biology, Chemistry, Geology, Meteorology and Physics

—A. Hechtlinger—Grosset & Dunlap, 784 p., paper, \$3.95. Reprint of 1959 edition, contains more than 15,000 concise definitions for the student and general reader, from "abaca" to "zymogen."

reader, from "abaca" to "zymogen."

THE NATURAL PHILOSOPHER, Vol. II—Daniel
E. Gershenson and Daniel A. Greenberg—Blaisdell
Pub. Co., 127 p., illus., \$2.95; paper, \$1.95. Papers
devoted of the history of physics and the influence of
physics on human thought and affairs through the ages.

NUCLEAR RADIATION GUIDE—Aerospace Medical Division—OTS, 233 p., illus, paper, \$3.50. Supersedes WADC Technical Report 57-118 (I and II) "A Radiobiology Guide." Nontechnical report on biological effects of radiation, shielding methods, monitoring instruments, radiation exposure control, waste disposal and radiation protection guides.

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PROCEEDINGS OF THE SYMPOSIUM ON PHYSICS AND NONDESTRUCTIVE TESTING, 1963—Warren J. McGonnagle, Chmn.—Southwest Research Institute, 383 p. illus., \$20. Symposium emphasized fundamental principles underlying non-destructive methods for the evaluation of materials or material properties, such as the physics of failure, ultrasonics, the Mossbauer effect, and radiation.

REPORT OF THE WORLD FOOD CONGRESS, Washington, D. C., 4 to 18 June 1963—Food and Agriculture Organization of the United States (Int'l Documents Service, Columbia Univ. Press), 160 p., paper, \$3. Discussion of plenary meetings and reports of the technical commissions.

of the technical commissions.

RICH MAN, POOR MAN—Herman P. Miller, introd. by W. Willard Wirtz—Crowell, 260 p., illus. by Bill Gorman, \$4.95. Offers the layman a readable exposition of the human quantities that lie behind the numbers employed by economic statisticians as revealed in U.S. Census figures.

RUBBER: Natural and Synthetic—Walter Buehr—Morrow, 96 p., illus. by author, \$3. Informative reading for young boys and girls.

reading for young boys and gris.

700 SOIENCE EXPERIMENTS FOR EVERY-ONE—Compiled by Unesco, foreword by Gerald Wendt—Doubleday, rev. ed., 252 p., illus., \$4. Originally (1956) published as Unesco Sourcebook for Science Teaching, the expanded edition offers safe experiments for beginners using simple or improvised

THE TWO CULTURES AND A SECOND LOOK:
An Expanded Version of the Two Cultures and the Scientific Revolution—C. P. Snow—Cambridge Univ. Press, 107 p., \$1.95. New Am. Lib., paper, 60¢. Further thoughts on the problem of communication between the scientist and the non-scientist.

UNITED STATES EARTHQUAKES 1981—James F. Lander and William K. Cloud—Coast & Geodetic Survey (GPO), 106 p., map, paper, 55¢. Contains noninstrumental result in the various states and summary of instrumental epicenters for 1961.

• Science News Letter, 85:156 March 7, 1964

Nature Note

Cliff Swallow

➤ AS THE COLD northern winter draws to a close, flocks of birds which have migrated far to the south for the winter feel the urge to return to their native land. Although some migratory birds, such as the snipe, woodcock and lapwing, are guided by the thermometer and barometer, others depend only on instinct and arrive at almost the same time every year.

Famous among these "Instinktvoegel" is the cliff swallow, Petrochelidon pyrrhonota, which, like most swallows, makes a long migration every year. This bird nests throughout most of North America, but spends the winter months in Argentina and Brazil.

The regularity of the cliff swallow in arriving at his destination year after year has become famous because of one colony of swallows that returns each year the third week in March to the Mission of San Juan Capistrano in southern California.

The legend has arisen that the swallows regularly depart for the tropics on Oct. 23 and return on March 19, even in leap years. Although scientific observations have failed to support this theory, the birds do return approximately at the same time, regardless of the weather.

The cliff swallow is a colorful bird with his creamy forehead, chestnut face, gray color, blue upperparts, white underparts and buffy rump. You can easily find his nest up under the eaves of a building, on the side of a cliff or on a bridge. It looks like a large, gourd-shaped ball of mud with a spoutlike side entrance, and several nests are usually grouped.

• Science News Letter, 85:156 March 7, 1964