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ADMINISTRATION OF MEDICAL AND PHARMACEUTICAL PATENTS—Archie M. Palmer—*National Academy of Sciences-National Research Council*, Publication 375, 69 p., paper, \$2.00. One of a series of publications on nonprofit research and patent management based on extensive survey of current policies, practices and procedures.

THE ANNUAL SURVEY OF PSYCHOANALYSIS: A Comprehensive Survey of Current Psychoanalytic Theory and Practice, Volume III, 1952—John Frosch and others Eds.—*International Universities Press*, 682 p., \$10.00. Although intended for physicians, this volume is written in a way to be understandable to parents and teachers as well.

BIRTHPLACE OF THE WINDS—Ted Bank II—*Crowell*, 273 p., illus., \$4.50. A readable account of a two-man expedition from the University of Michigan, Operation Shoestring, to study plant life, the people, cave burials and something of the history of the distant Aleutian Islands.

CLOSED-CIRCUIT AND INDUSTRIAL TELEVISION—Edward M. Noll—*Macmillan*, 230 p., illus., paper, \$4.95. Presenting information about these TV systems and suggesting some of the ways in which such systems can serve modern needs. A text for technical institutes and adult education courses.

DESIGN AND TESTING OF FLEXIBLE PAVEMENT—A. C. Benkelman, Chairman—*Highway Research Board*, Bulletin 114, 87 p., illus., paper, \$1.65.

THE DISCOVERY OF WRANGEL ISLAND—Samuel L. Hooper—*California Academy of Sciences*, Occasional Papers No. XXIV, 27 p., illus., paper, \$1.00. This Arctic island which seemed inaccessible and valueless when it was discovered, now lies on the most direct air routes between the capitals of Europe and those of the New World. Discoverer was the author's father, Captain Calvin L. Hooper.

FOR PEBBLE PUPS: A Collecting Guide for Junior Geologists—Dolla Cox Weaver—*Chicago Natural History Museum*, 95 p., illus., paper, accompanied with box of mineral specimens, \$1.25. Telling junior collectors what rocks are important for a collection, how to find them and how to study, care for and display them.

A GUIDE FOR THE STUDY OF EXCEPTIONAL CHILDREN—Willard Abraham—*Porter Sargent*, 276 p., paper, \$3.50. Intended to help parent-teacher and other groups to aid the handicapped.

HISTORY OF AMERICAN TECHNOLOGY—John W. Oliver—*Ronald*, 676 p., \$6.50. Presenting an integrated picture of the influence of developing science and technology on the progress of our civilization.

LAND ACQUISITION 1955—David R. Levin, Chairman—*Highway Research Board*, Bulletin 113, 83 p., illus., paper, \$1.80. Discussing right-of-way problems.

MIGRATION AND MENTAL DISEASE: A Study of First Admissions to Hospitals for Mental Disease, New York, 1939-1941—Benjamin Malzberg and Everett S. Lee with an introduction by Dorothy S. Thomas—*Social Science Research Council*, 142 p., illus., paper, \$1.50. A finding of this study is that incidence of mental disease is higher among migrants than nonmigrants either because poorer risks migrate or because of the strain of movement.

MINERALS YEARBOOK 1953: Volume II, Fuels—T. W. Hunter and others—*Gout. Printing Office*, Bureau of Mines, 478 p., illus., \$2.25. The total new energy supply in the United States in 1953 increased more than one percent over 1952 to overcome the decline of the previous year.

THE NEUROSES IN CLINICAL PRACTICE—Henry P. Laughlin—*Saunders*, 802 p., \$12.50. Describing the neuroses in such a way that they are readily identified. The patient's feelings are often given in his own words.

A NEW PYGIDIIN CATFISH FROM ARGENTINA—J. T. Nichols—*American Museum of Natural History*, Novitates 1760, 3 p., illus., paper, 25 cents. This new species of catfish was found at an elevation of 8,000 feet in a dry part of Argentina.

NUCLEAR SCIENCE AND ENGINEERING: The Journal of the American Nuclear Society, Volume I, Number 1—J. G. Beckerley, Ed.—*Academic*, 102 p., illus., paper, Bimonthly. \$2.00 or \$10.00 per volume. Intended to aid in the integration of the several disciplines constituting nuclear science and technology.



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THE PSYCHO-MEDICAL GUIDE TO A LIFETIME OF GOOD HEALTH: The Promise of Psychosomatic Medicine—Curt S. Wachtel—*Psycho-Medical Library (Citadel)*, 318 p., \$5.00. Explaining in non-technical language the forces between body and mind which may produce illness and cure.

STARTING RIGHT WITH BEES: A Beginner's Handbook on Beekeeping—Original material by M. J. Deyell and the late E. R. Root, revised and edited by Walter Barth—*A. I. Root Company*, 100 p., illus., paper, 95 cents. Beekeeping, the author says, is an occupation for old or young, rich or poor, men or women, tired or vigorous.

SURVEY OF OPHTHALMOLOGY: Volume 1, Number 1—Frank W. Newell, Ed.—*Williams & Wilkins*, 104 p., paper, six times a year, \$2.00 or \$9.00 per volume. A review journal, directed toward the practitioner, composed of condensations rather than abstracts and combined with editorial evaluation.

SURVEYS IN MECHANICS: A Collection of Surveys of the Present Position of Research in Some Branches of Mechanics, Written in Commemoration of the 70th Birthday of Geoffrey Ingram Taylor—G. K. Batchelor and R. M. Davies, Eds.—*Cambridge University Press*, 475 p., illus., \$9.50. Containing ten specially written articles plus a biographical note on Sir Geoffrey.

SURVIVAL RATES, LONGEVITY, AND POPULATION FLUCTUATIONS IN THE WHITE-FOOTED MOUSE, PEROMYSCUS LEUCOPUS, IN SOUTHEASTERN MICHIGAN—Dana P. Snyder—*University of Michigan, Museum of Zoology*, No. 95, 33 p., illus., paper, 50 cents.

TAXONOMIC APPRAISAL AND OCCURRENCE OF FLEAS AT THE HASTINGS RESERVATION IN CENTRAL CALIFORNIA—Jean M. Linsdale and Betty S. Davis—*University of California Press*, University of California Publications in Zoology, Volume 54, No. 5, 77 p., illus., paper, \$1.50. A study of animals on 1,600 acres of protected land resulted in the collection of 24,759 fleas from 2,459 mammals.

TEXTBOOK OF CHEMISTRY—Edward Mack, Jr. and others—*Ginn*, 2d ed., 854 p., illus., \$6.50. A college text intended to broaden and deepen the student's knowledge of scientific facts, outline the precise nature of scientific evidence and emphasize the rigor of scientific thinking.

TWO OCCURRENCES OF FALSE KILLER WHALES, AND A SUMMARY OF AMERICAN RECORDS—Harvey R. Bullis, Jr. and Joseph Curtis Moore—*American Museum of Natural History Novitates* 1756, 5 p., paper, 25 cents.

Science News Letter, April 14, 1956

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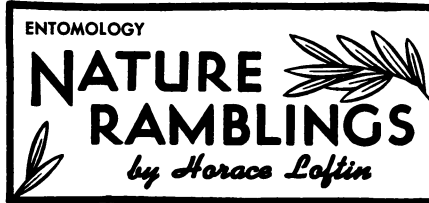
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Insect Athlete

► IF THERE ever are Olympic games for the insect world, a flea will probably leap away with all honors in the broad jump and high jump. Of course, the winning leap will have to be decided by comparing the size of the insect to the distance it springs. Otherwise, the minute fleas would be far outdistanced by the two or three-inch grasshoppers.

Scientists looking into the matter find that a flea whose pair of jumping legs are about 1/20 of an inch long can make a horizontal leap (broad jump) of as much as 13 inches. A high-jumping flea of this size can leap as much as 7 1/4 inches straight up.

If length of legs were the only thing involved, on this scale a human athlete with legs three feet long might be expected to make a broad jump of 700 feet and a high jump of at least 450 feet!

In the insect Olympics, no nation would have a great advantage over the others, since fleas — there are some 500 species known to science—are practically worldwide in distribution. Even animals of the remotest north have their full complement of these parasites.

About the only way to be sure not to be troubled by flea bites is not to be a mammal or a bird, for fleas restrict their unwanted friendship to these two classes of animals exclusively. Presumably, mammals have suffered even longer than birds from fleas, too, since most experts agree that the flea species that infest birds were derived from fleas of mammals.

Moles and shrews may hold something of a record for persistent suffering. Even

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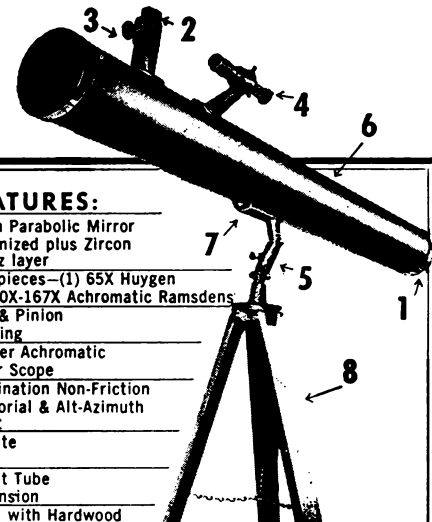
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