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and plant geography. As elsewhere, the treatment of these topics is extensive, accurate, and current.

As a general-botany textbook, Cronquist's must surely rate at or near the top.

Gilbert A. Leisman
Kansas State Teachers College
Emporia

Zoology

ANIMAL VARIETY, by Lawrence S. Dillon. 2nd. ed., 1970. William C. Brown Co., Dubuque, Iowa. 171 p. \$2.75 (soft-back).

This is a concise treatment of the animal diversification, by taxa. Unlike many of the contributions in this field, it is not simply a phylogenetic compilation limited primarily to morphologic considerations; rather, it makes distinctions among the phyla by using behavioral, functional, and developmental as well as morphologic traits. Purely descriptive material is kept to a minimum.

To provide background for his treatment of the diversity of animals, Dillon reviews both the early and the present-day schemes of classification. The two-kingdom system is classical, but others have been proposed; among these are single-kingdom, three-kingdom, and multiple-kingdom schemes. The author does not support any of these points of view; instead, he chooses a group-to-group treatment of those organisms that are considered to have animal-like traits. Much of the treatment is of the nine or 10 major phyla recognized in most beginning textbooks. The thread of evolution enables the author to correlate the various diversifications ex-

hibited by the animals and to make the transition from one group to another while at the same time showing inter-relationships among the groups.

This book could well be used as either the textbook on the subject or as a supplementary resource in an introductory course in biology, particularly in secondary schools. Obviously, its conciseness precludes the detailed study of any of the organisms Dillon mentions; to do so would necessitate the use of more particular works.

Paul L. Brown
Norfolk (Va.) State College

HOOFED MAMMALS OF THE WORLD, by Ugo Mochi and T. Donald Carter. 2nd ed., 1971. Charles Scribner's Sons, New York. 288 p. \$9.95.

Seeing this volume in print once again is most gratifying. Both authoritative and artistic, it first appeared in 1953 in a different size and format than the current edition, which is somewhat reduced from that of the original although the illustrations are the same size as before. The first edition was allowed to go out of print and became a collector's item. This new edition, although not as lavishly produced as the first, is a worthy addition to any biologist's or artist's library. Its unusual combination of authorship—an artist and a scientist—has resulted in a book whose illustrations, each originally cut out of a single piece of paper with a knife, lend such aesthetic appeal that many may consider it just another "coffee-table book"; however, it also happens to be the only one-volume review of the world's hoofed animals. It depicts more than 290: all the known species and many of the races. As more

than 90 of these are now considered either rare or endangered, future volumes concerning hoofed animals of the world may be much slimmer. Civilization owes much to the hoofed mammal; the artistry of Mochi and the scientific expertise of Carter combine to preserve this heritage in a beautiful, authoritative fashion.

William V. Mayer
University of Colorado
Boulder

THE STORY OF RODENTS, by Dorothy E. Shuttlesworth. 1971. Doubleday & Co., Garden City, N. Y. 96 p. \$4.50.

Ten-year-olds lunching on chocolate-covered doughnuts eagerly appraised the book for me: "Hey, neat!" and—inevitably—"I had a gerbil once . . ."

Rodents, from Mickey Mouse to the squirrels in the attic, interest everyone. They have been around for a long, long time. How and why they are so successful is told in this delightful book, which is intended for young readers but was also enjoyed in my household by teenagers and a middle-aged grandmother. The animals—chipmunks, lemmings, beavers, capybaras, and all—are described knowledgeably but not anthropomorphically, and scientific names are fitted naturally into the text. (Rabbits, though rodent-like, are lagomorphs and so are excluded.) Shuttlesworth tells just enough to make the reader want to investigate his special interest further. Lydia Rosier, in her fine pictures, manages to give the little creatures those bright, slightly mad eyes that may contain the secret of their success.

Mary B. Gadd
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