

ways. It is an essential publication for all biologists interested in waterfowl.

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AN INTRODUCTION TO THE STUDY OF PROTOZOA,
Doris L. Mackinnon and R. S. J. Hawes,
\$12.50. xix + 506 p. Oxford University Press,
London, 1961.

This textbook of protozoology was begun by the late Doris L. Mackinnon of King's College, London, and was completed by Dr. Hawes after her death. The Protozoa are discussed by taxonomic groups. Each class and order has a section introducing the reader to the group as a whole, and each also has at least one, and frequently several, species described in detail. Over a hundred kinds of protozoa are described, usually with line drawings. Since most free-living protozoa are cosmopolitan in their distribution, the descriptions include many of the forms seen in any part of the world. Most of the individual species are treated in one or two pages, but *Paramecium* is allotted 22 pages. *Plasmodium* is omitted because the authors felt that it could be handled more accurately and completely in books of medical protozoology.

There are two special features not usually found in books on protozoa. One is the 62 page chapter on "Methods of Protozoology" that discusses the use of the microscope, culture methods, and permanent preparations. The other is in the index where there is a "host-list of parasitic Protozoa described" and a "host-list of parasitic Protozoa mentioned." With these lists one can determine the parasitic protozoa he might encounter when examining a given host.

This is a valuable reference book as it stands and the bibliography of almost a thousand references at the end of the book makes it a starting point for further study.

John M. Hamilton
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SHEARWATERS, R. M. Lockley, 256 pp., \$1.25,
Doubleday and Company, Inc., Garden City,
New York, 1961.

This book is a pocket sized manuscript written of the Manx Shearwater. The story, the day and night experiences of the author living with the shearwaters, is told with simplicity and clarity. From this study has come an intimate knowledge of these most interesting sea birds. As a reader you encounter such details as courtship, incubation and rearing of the chick, abandonment of the chick, its survival trek to the sea during the dark of the night, migration, and many other interesting aspects. All this

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told with fascinating truth and touches of drama. Shearwaters offers an evening of enjoyable reading and would be a usable library addition in ornithology and natural history.

L. L. Hearson
Park College
Parkville, Missouri

A PICTORIAL VADE-MECUM FOR GENERAL ZOOLOGY, Francis M. White, 137 pp., \$4.25, Burgess Publishing Co., Minneapolis, Minnesota, 1960.

Here is the author's deliberate attempt to provide a lab manual where the student must supply all the labels and most of the drawings as opposed to the manuals where much of this is furnished. Thus, there are many blank pages, but there are photograph inserts to help the student orient his study of the specimen. A wide variety of animals are used in the year's course outlined in this manual.

DWELLERS IN DARKNESS, S. H. Skaife, 180 pp., \$.95, Doubleday and Company, Inc., Garden City, New York, 1961.

A brand new book by a noted South African biologist on the termite. This inexpensive paperback illustrates quite well that there are still exciting frontiers of biological research in what used to be called nature study. The tremendous

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research which the author has done is displayed here. These mysterious insects, the termites, lead unusual social lives. Their ability to secrete a deadly poison for their enemies, the ants, their nest building ability resulting in mounds impervious to weather, their unusual feeding habits, the peculiar social organization vigorously enforced, their defenses against enemies—all these are described in fascinating detail. One is reminded when reading this book that careful observation leads to experimentation, and these are proper steps for student project work. There are many ideas in this book. Highly recommended.

LABORATORY EXERCISES IN INSECT MICROBIOLOGY AND INSECT PATHOLOGY, Mauro E. Martignoni and Edward A. Steinhaus, 75 pp., \$3.00 Burgess Publishing Company, Minneapolis, 1961.

While the title of this lab manual is self-explanatory, it is essentially a guide for use in a highly specialized course on insect pathology. However, the general biology teacher will find an unusual series of exercises and experiments which have relevancy for the general course. Protozoa, nematode, fungal, and bacterial infections of insects are demonstrated in the course. Appropriate lab techniques are fully explained. A fine area for exploration by the general student.

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