

habitat, geographic range and natural history.

Disappointing as this may be, the section on care of the snake is even worse. The care section is so condensed as to be of little use, and this is the biggest failure, considering Mr. Mehrtens' experience. While the data presented in all sections is usually accurate, it is presented in too superficial a manner to be of much help.

The book is clearly built around the more than 500 color photos with only limited text to supplement the illustrations. Most of the photos are of good to excellent quality, but some are slightly out of focus, often due to poor depth of field. While they are the major selling point for the book, they do not rate the price asked. This book is not meant to be a textbook and cannot be used as such. With its major flaws, it also cannot be seriously recommended for libraries.

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ZOOLOGY

INTEGRATED PRINCIPLES OF ZOOLOGY, 8th Edition.

by C.P. Hickman Jr., L.S. Roberts and F.M. Hickman. 1988. Times Mirror/Mosby College Publishing (11830 Westline Industrial Dr., St. Louis, MO 63146). 1024 pp. \$47.95 cloth.

This 33-year-old widely used book has undergone its seventh revision, this time after a scant four years. Users will find the same features—such as good illustration and an understandable reading level for introductory college students—which have made it popular since its inception but with considerable updating as suggested by users and a panel of distinguished zoologists. The book has something for everyone, more than some would include in even a two-semester zoology course. The heart of the book is contained in the 20 chapters on animal diversity, about half the content.

While the five kingdom system of Whittaker is acknowledged as being increasingly accepted by biologists, the seven phyla recognized by the Society of Protozoologists are continued as in the previous edition as an introductory chapter in the diversity section of the book. The coverage of metazoa has been shortened and the sponge material considerably revised.

The kinorhyncha are included along with the rotifers, gastrotrichs, nematodes, nematomorphs, acanthocephalons and entoprocts in the chapter on pseudocoelomate animals. A paragraph has been added to clarify the relationship of the lacunar system and musculature of the "spiny headed worms." The usual life cycles of both pseudocoelomate and acoelomate worms have been retained. The section of torsion and coiling of molluscs has been revised slightly. The arthropods have been reorganized to give both crustacea and uniramia the status of subphyla. The condensation of the insects into 17 pages is regrettable and must be regarded as a negative part of the revision. While the insects are referred to in other sections, this important group of animals are not used as examples nearly as often as they could be.

The "family trees" of the fishes, amphibians, reptiles, birds and mammals are retained from the last edition and are especially well done. These are most helpful to many instructors. Most of the vertebrate chapters are quite similar to earlier editions. The lesser protostome and protochordate material has been expanded.

The introductory chapters of the book include an excellent set of principles and concepts which can be referred to throughout a thorough zoology course. Additional material on cell structure, energy, cellular physiology and animal architecture is included. The classification chapter discusses numerical taxonomy and cladistics, as well as gives several helpful definitions and examples of terms such as primitive, advanced, specialized, generalized and cladogram.

Sections on Activity of Life, Continuity and Evolution of Animal Life, and the Animal and Its Environment complete the book.

A valuable added feature is the appendix which contains the origins of basic concepts and discoveries in zoology from Aristotle providing a foundation for zoology as a science to the sociobiology of Edward Wilson. A good glossary is also included. The phylogeny of major phyla superimposed on a generalized time scale inside the front cover has been retained and may be helpful to many students and teachers as is the more detailed chart on Origin of Life and Geologic Time Table inside the back cover.

A feature added in the seventh edition and continued in the eighth has been the use of the margins for interesting, usually up-to-date sidelights that can be read separately without interrupting the narrative.

The book will continue to be widely used in general zoology courses, particularly those stressing animal diversity, and will remain a good standard zoology reference book.

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AIDS

AIDS

by Alan E. Nourse, M.D. 1986. Franklin Watts, Inc. (387 Park Ave. S., New York, NY 10016). 128 pp. \$11.90.

Dr. Nourse has attempted to educate the general public and define the problems associated with Acquired Immunodeficiency Syndrome (AIDS). This book can easily be used as a supplement for high school biology teachers or as a library reference. The book is best suited for high school students interested in AIDS. I believe it is also adaptable to a first year (non-science major) college level course and for general reading. It is not recommended for advanced courses, even at the undergraduate level.

This book can be read by anyone with a good general science background. The subject is thoroughly covered from the possible evolution of the virus through the symptoms of the disease, protection from the virus to future progress in vaccine development, although very little information is given on the various approaches to vaccine development or treatment. The book contains eight chapters, a glossary of terms and less than ten illustrations.

The information in *AIDS* is centered around three major areas: understanding the terminology associated with this disease (and removing some of the stigma and fright associated with AIDS), risk groups and epidemiology of the virus, and lastly, defensive living and how to protect yourself against coming in contact with the virus. The text includes a question and answer section along with information concerning the "lowest risk group" to acquire the disease and lifestyle characteristics of this group. The book makes an excellent attempt to define in lay terms medical terminology, often giving everyday examples and root derivatives. The author uses a scientific approach in a very readable format.

The Human Immunodeficiency Virus (HIV) is referred to throughout the text as HTLV-III, the older nomenclature given to the virus. If you get

beyond this deficiency in the text you will find the book is a basic, scientific approach to understanding the evolution of and future problems associated with AIDS.

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BOTANY

GUIDE TO INFORMATION SOURCES IN THE BOTANICAL SCIENCES

by Elisabeth B. Davis. 1987. Libraries Unlimited, Inc. (P.O. Box 263, Littleton, CO 80160-0263). \$32.50 (U.S.), \$39.00 (elsewhere).

This book provides a list of information sources for seekers from students to specialists. It is divided into three

parts: Bibliographic Control, including guides, bibliographies, catalogs, abstracts, indices and databases; Ready-Reference Sources, including journals, dictionaries, handbooks, directories and manuals; and Additional Sources of Information, including historical materials, texts and publishers.

As a professional I would find little of use in this book. Most of the general references listed are well-known and are used by professionals. The journal references are not complete by any means, and the ones chosen seem to be the journal of each country's botanical society. Many more specialized area journals are not included: i.e., *American Fern Journal*, *Canadian Field-Naturalist*, *Rhodora*, *Stain Technology*, or *Annual Review of Ecology and Systematics*. An annoying aspect of the society listings is that several of the addresses are three years out of

date. A better listing would give the journals published and indicate that the current journal should be consulted for proper addresses.

I conclude that this book's main use is as a library reference to direct students and amateurs in a beginning search for literature. Portions of this book will remain useful for that purpose for many years, especially the *Historical Materials*, *Bibliographic Tools and Identification Sources*. The *Index* is complete and a very useful part of the book.

Since the book only comes in hard cover, it will stand up to library use as a reference source. It is a book that should be in general or botanical library collections.

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HONORARY MEMBERSHIP 1987

Floyd H. Nordland

1984 Convention Chair and
Professor in the Department of Biological
Sciences and Education at Purdue University

Honorary membership, NABT's highest honor, recognizes distinction in teaching, research, or service in the biological sciences. He received distinction in each of these areas. He has been active in introducing teachers in the Philippines, Nigeria and Australia to the inquiry teaching method, which has had a profound effect on science teaching in those countries. He has been effective in teaching future elementary teachers biology, biochemistry and science teaching methods. He is always willing to tutor and advise students, and future teachers leave his course with an appreciation of biology and an abundance of ideas for introducing their students to science. Chair of the 1984 National Convention and a former OBTA winner, his intelligence, humor and diligence have added a special quality to biology education.