

ment of certain animals and cross-sectional views of the habitats of many species. Range maps of the major groups are also very useful.

The only drawback to the book is the size and the cost. The comprehensive nature of the book lends itself very well to those who are majoring in paleontology, but the undergraduate would find it hard to justify such an expenditure for a reference book. It could easily be published in another version consisting of two or three volumes. In this way the material would probably receive wider usage.

For those majoring in the subject, it will serve as an extremely useful guide to both teacher and student. The list of references at the end of each chapter is comprehensive and can be an extremely useful tool to interested parties.

The revisions and the inclusion of new material in the second edition make it an excellent textbook for specific courses of study and I would hope that it will be recognized as such by major universities.

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STATISTICS AND EXPERIMENTAL DESIGN

by Geoffrey M. Clarke. 2nd ed., 1980.
University Park Press (233 East Redwood Street, Baltimore, MD 21202). 188 p. \$24.50.

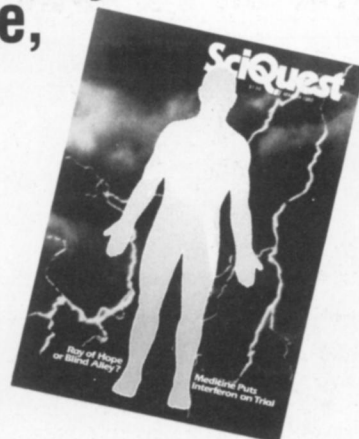
Today's scientists are relying more and more on computers and calculators for the collection and analysis of data. Because of these efficient data-manipulating devices there is a growing need for biologists to understand the basics of statistics. This textbook is designed to meet these needs by providing an excellent and well-written first course in statistics. The material is presented with many biological examples and exercises, thereby showing both the advantages of statistics to the biologist and also how easy it is for the biologist to utilize common statistical procedures.

The first six chapters deal with the parameters, shapes, and properties of the binomial, poisson, and normal distributions. The next five chapters provide today's biologists with the most commonly used statistical procedures (correlation, linear regressions, confidence limits, and tests of significance). The next four chapters illustrate the elements of statistical design with more clarity than is normally found in more advanced texts. Finally, the last two chapters show how to deal with missing data and illustrate a few non-parametric tests.

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The book does, however, have a few shortcomings. More attention should have been devoted to other non-parametric tests and the Chi-square contingency tables because the reader may not readily distinguish the difference between the observed and predicted values in contingency tables. Also, chapter references were not provided and the analysis of variance multiple range tests for posteriori comparison among treatment means did not include Duncan's Newman-Keul's nor Scheffe's tests. The obvious care given to all of the other chapters presents the biologist with easy-to-follow patterns for his or her own analysis and is the strongest point of the book. Also, the clarity of the illustrations and the precision of the answers for all of the exercises greatly enhance the book's utility.

This is an excellent book for biologists and beginning students in statistics. It should be required reading for undergraduates and graduate students of biology, especially if they are to utilize all of the tools of the computer age.

Michael B. Moll
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Books Received

LABORATORY ANATOMY OF THE WHITE RAT, 4th ed., by Robert B. Chiasson. 1980. William C. Brown Company, Dubuque, Iowa. 101 p. Price not given.

INSECT THERMOREGULATION, by Bernd Heinrich. 1981. John Wiley & Sons, New Jersey. 327 p. \$35.00.

THE JOY OF CHICKENS, by Dennis Nolan. 1981. Prentice-Hall, Inc., New Jersey. 31 p. \$12.95.

PROCEEDINGS FIFTH INTERNATIONAL BAT RESEARCH CONFERENCE, by Don E. Wilson and Alfred L. Gardner. 1980. Texas Tech Press, Lubbock. 434 p. \$16.00.

SKUNKS, by Wyatt Blassingame. 1981. Dodd Mead, New York. 64 p. \$5.95.

MUSHROOMS OF WESTERN NORTH AMERICA, by Robert T. Orr and Dorothy B. Orr. 1981. University of California Press, Berkeley. 299 p. \$12.95 cloth; \$6.95 softback.

PRINCIPLES AND TECHNIQUES OF ELECTRON MICROSCOPY: BIOLOGICAL APPLICATIONS, Volume I, 2nd ed., by M. A. Hayat. 1981. University Park Press, Baltimore, Maryland. 522 p. \$29.95.

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REGIONAL SILVICULTURE OF THE UNITED STATES, 2nd ed., by John W. Barrett. 1980. John Wiley & Sons, Inc., New Jersey. 551 p. \$31.50.

PHOTOSYNTHESIS: PHYSICAL MECHANISMS AND CHEMICAL PATTERNS, by Roderick K. Clayton. 1981. Cambridge University Press, New York. 281 p. \$32.50 hardcover; \$11.95 softback.

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THE ANATOMY OF THE GRASSHOPPER, by Jack C. Jones. 1981. Charles C. Thomas, Publisher, Illinois. 272 p. \$27.50.

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HUNTERS AND THE HUNTED: SURVIVING IN THE ANIMAL WORLD, by Dorothy Hinshaw Patent. 1981. Holiday House, New York. 64 p. \$7.95.

ONE HUNDRED FAMILIES OF FLOWERING PLANTS, by M. Hickey and C. King. 1981. Cambridge University Press, New York. 567 p. \$66.00 hardcover; \$19.95 softback.

HANDBOOK ON TEACHER RENEWAL AND DEVELOPMENT, by National Association of Independent Schools (NAIS) Teacher Services Committee. 1981. NAIS, Boston, Massachusetts. 76 p. \$6.75.

PLANTS OF QUETICO AND THE ONTARIO SHIELD, by Shan Walshe. 1980. University of Toronto Press, Ontario, Canada. 152 p. \$25.00 cloth; \$7.95 softback.