

A Special Publication from NABT



## POLLUTION

Edited by Paul Klinge  
and Clarence Lange

This publication was prepared for high school and college use. It is divided into three sections: the realities of pollution, teaching about pollution, and laboratory investigations.

Twenty-four authors have contributed to this publication. They include Hugh Iltis, A. M. Winchester, E. J. Kirsch, Bernard Sohn, William Mayer, Alexander Cohen, David Dilcher, Karl Zobel and Alan H. McGowan.

This useful and practical publication is available from NABT for \$2 per copy.

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Integration and Coordination, Processing and Transporting, and The Human Life Cycle. There are twenty-three chapters including one on human genetics, a topic usually not included in introductory human anatomy and physiology textbooks.

Each chapter is introduced with a chapter outline, chapter objectives, some key terms with a pronunciation guide, and a brief list of Greek and Latin prefixes, suffixes, and roots as aids to understanding words. This last feature is particularly useful to the student. Throughout the chapters much highly technical material is most clearly and effectively presented. All chapters are well written and contain a wealth of information. Interspersed in the chapters are eye-catching boxed inserts of various lengths presenting up-to-date, interesting, and fascinating topics. One of the features I found most valuable were the numerous charts summarizing key physiological processes. Each chapter concludes with a list of defined terms related to the particular system or topic covered, an excellent summary, a section of clinical application questions, a series of review questions, and a list of suggested readings.

The book contains a six-page appendix with information on the metric system, apothecary weights, and clinical data. There is an excellent seventeen page glossary. Although the expert may find many of the definitions too brief, they are quite adequate for the beginning student. A twenty-page index is thorough.

The editing is of high quality. Very few typographical errors were noted and the tables and illustrations are good. The book is comprehensive and the coverage of topics well balanced.

The instructor's resource manual and test item file is well written and organized. There are relatively few typographical errors although the word "manikin" is consistently misspelled as "manikan." The manual contains chapter overviews, chapter summaries, suggested classroom activities, review activities, and a list of related films. In addition, there are suggested class schedules and directories of suppliers of audiovisual and laboratory materials. The test items appear together on pages 123-172. The questions are of four types: multiple choice, true-false, completion, and matching. There are over 1,000 questions, they are generally good, and all answers are given.

Although I highly recommend the above, I have some reservations about the student guide. Not because it isn't well done, for it is. I just don't think it is necessary. This guide has nearly half the number of pages as the textbook. Each chapter contains an overview, chapter objectives, one focus question, a brief mastery test with answers in the last few pages of the guide, and a set of study activities consisting of various questions with page references to the textbook where the answers can be found. All this seems redundant for the textbook has a fine list of objectives, excellent summaries, review questions, and questions throughout the chapters.

Ralph Troll  
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**FUNCTIONAL HUMAN ANATOMY**  
by James E. Crouch. 3rd ed., 1978.  
Lea and Febiger (600 Washington  
Square, Philadelphia 19106). 663 p.  
\$19.50.

*Functional Human Anatomy* is a superb, comprehensive textbook that is intended for use by a beginning college anatomy student who has some back-

ground in biology and who intends to major in health and related fields. Far from being elementary, it is a challenging and stimulating book that can be a useful reference for all anatomically based studies. Though stressing the interrelationships of human structure and function, this book also includes histology, embryology, and comparative anatomy in each of the areas of study in order that the student may acquire a frame of reference and an appreciation of the complexity of the human body.

The five introductory chapters not only review the biology important to anatomy, but also set the philosophical tone. The six support system chapters and the fourteen control/maintenance chapters efficiently and thoroughly present the anatomical information. Each of the twenty-five chapters also includes a chapter outline, applicable illustrations, questions for review, and suggested readings. The chapters are supplemented by an index and a glossary that includes with each term the pronunciation, etymology, and definition.

The illustrations are abundant and are well placed within each chapter; they are large, clear, and detailed. Many are colored for emphasis and contrast in from one to seven shades. Dual labeling further enhances the thoroughness and

usability of this book; boldface type labeling emphasizes important structures.

The third edition improves on previous ones by rearranging the order of some chapters, by breaking large chapters down, by revising chapters to include new information, and by improving illustrations. The end result is an excellent textbook of unique caliber.

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#### STRUCTURE AND FUNCTION IN MAN

by Stanley W. Jacob, Clarice Ashworth Franconne, and Walter J. Losow. 4th ed., 1978. 678 p. \$13.95. With *Questions and Answers to Accompany Structure and Function in Man*, 46 p. Price not given; *Laboratory Manual of Structure and Function in Man*, 278 p. \$7; and *Teacher's Guide for Laboratory Manual of Structure and Function in Man*, 74 p. W.B. Saunders Company (West Washington Square, Philadelphia 19105).

Within the boundaries of these four books the authors have developed an excellent course in human anatomy and

physiology. The textbook, *Structure and Function in Man*, begins with a discussion of cells, tissues and an overview of the entire body. Following this, each individual system is dealt with in a separate chapter. The chapters have an opening list of objectives, a detailed presentation of current concepts, a brief look ahead at research now being carried on and an excellent outlined summary at the conclusion. Abnormalities and dysfunctions of each system are also discussed briefly. The book is extremely well illustrated. All illustrations are labeled well and many are colored. There are appendices on basic chemistry, metric units and equivalents, and prefixes, suffixes and combining forms, a list of suggested additional reading and an extensive glossary. Although the book is intended for used by college students, nurses, and other paramedical and medical students, its readability and clear presentation make it entirely usable by an advanced high school biology class studying these fields. It certainly should be included as a library reference book in any high school where biology and health are part of the curriculum.

The booklet questions and answers that accompanies this textbook seems to have various uses: as a basis for tests, quizzes, homework assignments, class

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