

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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discussions or as a self-teaching booklet for each student. The questions vary in form from short answer, to multiple choice to true-false to matching.

The laboratory manual is paperbound, punched, and perforated. There is a laboratory corresponding to each chapter in the textbook. A laboratory consists of a varying number of experiments, practical exercises, and in some cases clinical exercises. The exercises consist of short answer and/or essay questions, which could be used for discussion or a test as well as part of the laboratory. The manual has a suggested time allotment for each laboratory. There is also an appendix giving conversion tables and formulae for basic solutions. Unlike the textbook, the laboratory manual is not suitable for most high schools. The manual is not reusable. There is a teacher's guide which accompanies the manual. Besides the answers to the laboratory exercises it also lists pertinent films and suppliers of laboratory equipment.

The authors should be congratulated for their skillful presentation and coordination of materials within these books.

Thelma J. Flint  
Tenaflly High School  
Tenaflly, New Jersey

## HUMAN FUNCTION AND STRUCTURE

by Dorothy S. Luciano, Arthur J. Vander and James H. Sherman. 1978. 72 p. Price not given. With *Study Guide* by Kent M. Van DeGraff and Reuben Rhees. 1978. 261 p. Price not given; and *Instructor's Manual* by John P. Harley. 1978. 339 p. Price not given. McGraw-Hill Book Company (1221 Avenue of the Americas, New York 10020).

This is a textbook for college students of health or biological science who need a beginning course in anatomy and physiology. The organization is logical in that Part One gives basic biological knowledge of the cell and its chemistry as well as embryology systems. The writing style is concise, up-to-date, and interesting. A very fine glossary and photographs highlight the book. The use of more colors in the diagrams would have been helpful. Otherwise, the textbook and bibliography are complete for that level.

Accompanying the text is a *Study Guide* that summarizes and questions the student about some of the material in the textbook. The learning objectives, summaries, and questions are excellent,

but all of this should be part of the text itself so that the student will be sure to have it available as s/he studies.

A very clear, helpful *Instructor's Manual* is included with this text. Each chapter of the *Manual* has a summary, objectives, teaching aids, and excellent questions.

Monroe Cravats  
York College of the  
City University of New York  
Jamaica

## A MANUAL OF ANATOMY AND PHYSIOLOGY: FETAL PIG EDITION

by Anna B. Donnersberger, Anne E. Lesak, and Michael J. Timmons. 1978. D.C. Heath and Company (125 Spring Street, Lexington, Massachusetts 02173). 285 p. \$8.95.

This laboratory manual is intended for beginning students in the various health career programs offered at the college level. The authors are all community college teachers who have taken extra care in providing presentations that will help students learn.

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