

physical and mathematical concepts to their characterization. Nowhere in the volume are these key processes even mentioned in a logical sequence. The intake of nutrients, their processing, transport against an electrochemical gradient, synthesis into cell components or storage or use as "fuel," the interaction of cells, maintenance of the internal environment, the passing along of information, and similar phenomena are not clearly delineated. What emerges is a book on the physical sciences with some biological examples. Still, there are areas that might interest the biologist who wishes to explore physical aspects. One example is the discussion on ventilation/perfusion ratio, which is a useful mathematical presentation.

The 49 chapters are divided into eight sections: basic sciences, cardiovascular system, respiratory system, body fluids, nervous system, endocrine system, gastrointestinal system, and reproductive system. Some of these contain much biologic data, whereas others are almost devoid of clear statements about the biology involved. For the biomedical engineering student, the text could be helpful but would give a disjointed view of biology.

RICHARD P. SPENCER
University of Connecticut Health Center
Farmington, Connecticut

BOOKS RECEIVED

Nuclear Cardiology for Clinicians. Jagmeet Singh Sooin and Harold L. Brooks, Eds. Futura Publishing Co., 1980, 304 pp, \$34.50

Amplitude Distribution Spectrometers. Fundamental Studies in Engineering 3. W. Scharf and W. Lisieski, Elsevier Scientific Publishing Co., 1980, 568 pp, \$90.25

Methods of Assessment of Absorbed Dose in Clinical Use of Radionuclides. ICRU Report 32. International Commission on Radiation Units and Measurements, 1979, 62 pp, \$11.00

Radiographic Evaluation of the Spine. Current Advances with Emphasis on Computed Tomography. M. Judith Donovan Post, Ed. Masson Publishing USA, Inc., 1980, 738 pp.

Current Diagnostic Pediatrics. Diagnostic Imaging of the Kidney and Urinary Tract and Children. Alan R. Chrispin, I. Gordon, C. Hall, C. Metreweli, Springer, 1980, 206 pp, \$66.00

Concepts in Cancer Care. A Practical Explanation of Radiotherapy and Chemotherapy for Primary Care Physicians. Jay Scott Cooper, Donald J. Pizzarello, Lea & Febiger, 1980, 273 pp, \$16.50

Textbook of Radiotherapy. Third Edition. Gilbert H. Fletcher, Ed. Lea & Febiger, 1980, 959 pp, \$56.00

ICRU Report 33. Radiation Quantities and Units. ICRU Publications, 1980, 25 pp, \$8.50

Atlas of Computerized Emission Tomography. Peter Josef Ell, Judith Mary Deacon, Peter Hedley Jarritt, Churchill Livingstone, 1980, 225 pp.

NUCLEAR MEDICINE SCIENCE SYLLABUS

The *Nuclear Medicine Science Syllabus* is in the form of a comprehensive outline, with each subject liberally referenced to pertinent book chapters and journal articles. References in the *Syllabus* are keyed at two levels: "general references," which give a broad overview of the topic; and "additional references," which deal with the subject in greater depth or provide historical insight.

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The 169 page *Syllabus* comes in an attractive 3-ring binder and costs \$30.50 plus \$2.50 for postage and handling. Copies may be ordered from:

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