

ACTUALITÉS DE BIOPHYSIQUE ET DE MÉDECINE NUCLEAIRE. J.-C. Artus, R. Bador, C. Benezech, J.-A. Berger, C. Crouzat-Reynes, G. Gaillard, P. Jallet, P. Laget, F. Lapalus, M. Lecureuil, B. Lejeune, J. Llory, G. Meyniel, J. Petit, M. Romand, and J.-C. Vandroux. Paris, Masson, 1976, 157 pp.

This volume is the first of a series of French monographs to be devoted to the various theoretical and applied principles of biophysics and nuclear medicine. The text consists of five articles, each written by specialists in the field: Analytical Spectrometry of Fluorescent X-Rays; Labeled Molecules in Nuclear Medicine; Pulmonary Surfactant; Application of Ultrafiltration to the Study of Bonds between Macromolecules and Smaller Particles; ATPase and Active Transport of Monovalent Cations across Cellular Membranes.

The first chapter very concisely deals with the basics of emission and detection of fluorescent radiation. Brief mention is made of the biologic and medical applications of these methods. The second chapter is the one most beneficial to the nuclear physician as it describes the principles of preparation, purification, quality control, and preservation of labeled molecules. A short synopsis of the important medically used radiolabeled compounds is included. The last three chapters are of little direct concern to the nuclear physician. This particular monograph seems to be directed primarily to the biophysicists. Possibly, forthcoming issues will have a greater content of nuclear medicine.

ROBERT LISBONA, M.D.
Montreal General Hospital
Montreal, Quebec, Canada

ELEMENTS OF RADIATION PROTECTION. Ronald V. Scheele and Jack Wakley. Springfield, Ill., C. C. Thomas, 1975, 99 pp, \$7.95.

This concise paperback volume was written to serve as a primer in radiation protection and is an outgrowth of lecture notes used in courses given to radiology residents and technologists. The text is organized as a series of short chapters covering such topics as atomic structure, radiations and their interactions, quantities and units, biologic effects and maximum permissible dose, principles of protection and monitoring, AEC regulations, performance standards and operation of x-ray equipment, and reduction of patient and technologist exposure.

The brevity of the presentation is both the strength and the weakness of this text. The presentations are commendably short and to the point with little extraneous material. However, the student with little, if any, background in the subject may find occasional unsupported statements difficult to understand. No specific references are included in the chapters, except to acknowledge borrowed charts and figures. It would have been helpful if the sources of specific recommendations were noted. The presentation is clear and has relatively few errors, either typographic or of substance.

Elements of Radiation Protection would be most suitable as a class text, which could be supplemented by lecture, but it will also be useful to residents and technologists seeking an introduction to radiation protection.

RICHARD L. WITCOFSKI, Ph.D.
Bowman Gray School of Medicine
Winston-Salem, North Carolina

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For further information, please contact:

**Department of Nuclear Medicine
University of Connecticut Health Center
Farmington, Connecticut 06032**