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ELEMENTARY RADIATION PHYSICS

Fourth Edition

ELEMENTARY RADIATION PHYSICS

G. S. HADFIELD & J. E. TURNER



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Elementary Radiation Physics

Michael Seilmaier



Elementary Radiation Physics:

Elementary Radiation Physics George Samuel Hurst, James Edward Turner, 1970 *Radiation Physics for Medical Physicists* Ervin B. Podgorsak, 2016-11-03 This textbook summarizes the basic knowledge of atomic nuclear and radiation physics that professionals working in medical physics and biomedical engineering need for efficient and safe use of ionizing radiation in medicine Concentrating on the underlying principles of radiation physics the textbook covers the prerequisite knowledge for medical physics courses on the graduate and post graduate levels in radiotherapy physics radiation dosimetry imaging physics and health physics thus providing the link between elementary undergraduate physics and the intricacies of four medical physics specialties diagnostic radiology physics nuclear medicine physics radiation oncology physics and health physics To recognize the importance of radiation dosimetry to medical physics three new chapters have been added to the 14 chapters of the previous edition Chapter 15 provides a general introduction to radiation dosimetry Chapter 16 deals with absolute radiation dosimetry systems that establish absorbed dose or some other dose related quantity directly from the signal measured by the dosimeter Three absolute dosimetry techniques are known and described in detail i calorimetric ii chemical Fricke and iii ionometric Chapter 17 deals with relative radiation dosimetry systems that rely on a previous dosimeter calibration in a known radiation field Many relative radiation dosimetry systems have been developed to date and four most important categories used routinely in medicine and radiation protection are described in this chapter i Ionometric dosimetry ii Luminescence dosimetry iii Semiconductor dosimetry and iv Film dosimetry The book is intended as a textbook for a radiation physics course in academic medical physics graduate programs as well as a reference book for candidates preparing for certification examinations in medical physics sub specialties It may also be of interest to many professionals not only physicists who in their daily occupations deal with various aspects of medical physics or radiation physics and have a need or desire to improve their understanding of radiation physics Instructor Guide for Basic Radiological Defense Officer United States. Defense Civil Preparedness Agency, 1976 **Current List of Medical Literature** ,1951 Includes section Recent book acquisitions varies Recent United States publications formerly published separately by the U S Army Medical Library **Medical Aspects of Civil Defense Against Atomic Weapons** University of Rochester. Atomic Energy Project, 1955 *AEC Authorizing Legislation, Fiscal Year 1974* United States. Congress. Joint Committee on Atomic Energy, 1973 University Curricula in Radiological Health United States. Public Health Service, 1960 **University Curricula in Radiological Health** United States. Public Health Service. Division of Radiological Health, 1961 Nuclear Science Abstracts ,1975 **Air Force Research Resumés** , **UR** ,1950 **Spectral Reflectance** Victor R. Weidner, 1987 *Neutron Personnel Dosimetry* Robert B. Schwartz, 1987 **NBS Measurement Services** James H. Walker, Robert D. Saunders, 1987 *Spectral Irradiance Calibrations* James H. Walker, 1987 **Far Ultraviolet Detector Standards** L. Randall Canfield, Nils Swanson, 1987 *Photometric Calibrations* Robert L. Booker, Donald A. McSparron, 1987

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