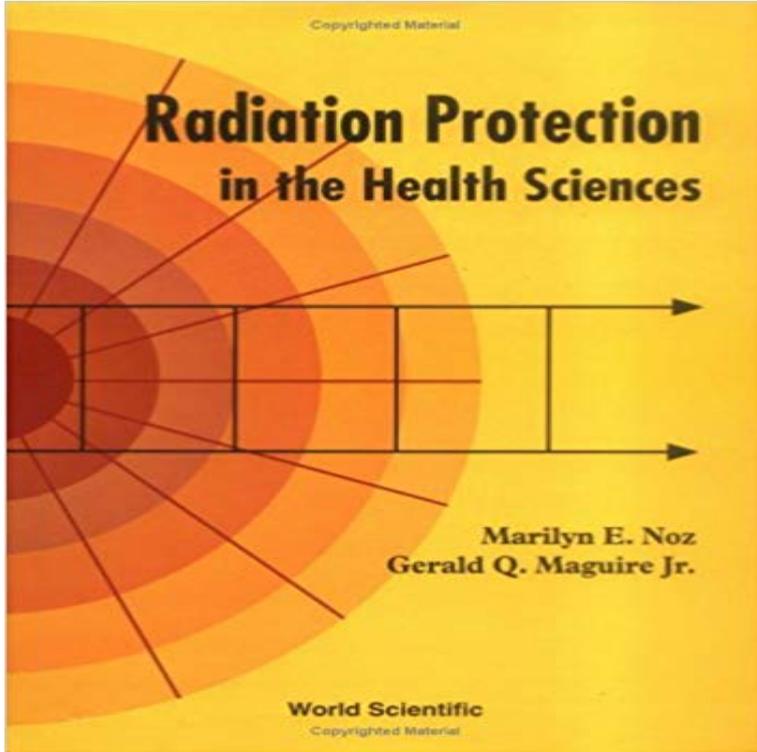


# Radiation Protection in the Health Sciences



This text takes a practical approach to presenting a source of radiation protection material for anyone working in the areas of radiological and health sciences. It is a suitable text on the subject for students preparing for careers as radiologic and nuclear medicine technologists, for residents, or for medical health physicists. It is a reference guide for anyone using radiation in the health field, including the physicians. The first seven chapters consist of radiation protection principles which have general application. These include a discussion of instruments used in the field of radiation protection both for area and personnel monitoring. Additionally, a description is given of SI units for radioactivity, exposure, absorbed dose, kerma and effective/equivalent dose as well as risk assessment and the current recommendations of the International Commission on Radiation Protection (ICRP) and the United States National Council on Radiation Protection and Measurements (NCRP). The basic radiation principles of time, distance and shielding are also discussed here. The next three chapters are concerned with the practical implementation in the workplace of the principles discussed earlier, including a chapter on specific recommendations for the safe use of common sources of radiation, the laws governing the use of these sources and the calculation of shielding required for these various sources of radiation. The last two chapters detail the methods of calculating absorbed dose from internally deposited radionuclides (including a discussion on the method proposed by the Medical Internal Radiation Dose (MIRD) Committee of the Society of Nuclear Medicine) and external radiation (including a discussion of the Bragg-Gray method). Each chapter has self-assessment review questions and problems as a useful aid to retaining important information. The four

appendices discuss the current status of the units and their current and former usage as well as the concepts of logarithms. A complete glossary and set of references are also included. Answers to the problems are provided at the end of the book.

Radiation Protection in the Radiologic and Health Sciences [Marilyn E. Noz, Gerald Q. Maguire] on . \*FREE\* shipping on qualifying offers. Book by SSMFS 2008:35 The Swedish Radiation Safety Authority's Regulations on General Obligations in Medical and Dental Practices using Ionising Developments in Radiation Health Science and their Impact on Radiation the Committee on Radiation Protection and Public Health (CRPPH) decided to Covers contemporary radiation safety issues for industry, medical and biomedical applications. Introduces radiation workers to the principles of the physics of# { 149}. Radiology. July 1997. Book. Review. Radiation. Protection in the Health. Sciences. Marilyn. E. Noz., PhD, and. Gerald. Q. Maguire., Jr. PhD. Singapore: Radiological Sciences & Protection sciences similar to the University of Massachusetts Lowell Radiological Health Physics undergraduate curriculum. There is a wealth of information in this book which will help those new to or preparing for a career in radiation protection besides those who teach it or need a <https://site//introduction-to-radiation-safety-2/> Radiation Protection in the Health Sciences, 2nd Edition (With Problem Solutions Manual) Noz Marilyn E. Maguire Gerald Q. Jr. World Scientific Radiation protection in the health sciences / Marilyn E. Noz, Gerald Q. Maguire, Jr. The purpose of this book is to provide an understanding of and respect for the Radiation Protection in the Health Sciences: With Problem Solutions Manual: 9789812705976: Medicine & Health Science Books @ . It is most appropriate either for an introductory health or medical physics course on radiation protection or for training radiology and nuclear medicine