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Radiation Protection:

Radiation Protection in Medical Radiography - E-Book Mary Alice Statkiewicz Sherer, Paula J. Visconti, E. Russell Ritenour, Kelli Welch Haynes, 2013-12-13 A full color resource Radiation Protection in Medical Radiography 7th Edition makes it easy to understand both basic and complex concepts in radiation protection biology and physics Concise coverage promotes the safe use of ionizing radiation in all imaging modalities including the effects of radiation on humans at the cellular and systemic levels regulatory and advisory limits for human exposure to radiation and the implementation of radiation safety practices for patients and personnel This edition includes NEW content on the impact of radiation levels during the nuclear power plant crisis that followed the 2011 earthquake tsunami in Japan From an author team led by well known radiation protection expert Mary Alice Statkiewicz Sherer this text has consistently helped students perform well on the ARRT exam well written and easy to comprehend Reviewed by Kirsten Farrell on behalf of RAD Magazine March 2015 Full color illustrations reinforce important information Convenient easy to use features include chapter outlines and objectives highlighting of key terms and bulleted summaries and review questions to enhance comprehension and retention Clear and concise writing style covers complex concepts in radiation protection biology and physics in a building block approach from basic to more complex concepts Review questions are included at the end of chapters to assess your comprehension with answers on the Evolve companion website Coverage of historical radiological disasters includes photos and text on Hiroshima Chernobyl and Three Mile Island UPDATED NCRP and ICRP content includes guidelines regulations and radiation quantities and units explaining the effects of low level ionizing radiation demonstrating the link between radiation and cancer and other diseases and providing the regulatory perspective needed for practice NEW Discussion of Total Effective Dose Equivalent TEDE covers the radiation dosimetry quantity defined by the U S Nuclear Regulatory Commission to monitor and control human exposure to ionizing radiation NEW Coverage of the Fukushima Daiichi Nuclear Plant Crisis addresses the impact of radiation levels following Japan s earthquake tsunami in March 2011 NEW TRACE section covers the Tools for Radiation Awareness and Community Education program a two phase approach to radiation dose awareness and overall patient dose reduction through a joint venture of AHRA and Toshiba s Putting Patients First NEW Discussion of the FDA white paper Initiative to Reduce Unnecessary Exposure from Medical Imaging promotes the safe use of medical imaging devices supports informed clinical decision making and leads to increased patient awareness

Radiation Protection Euclid Seeram, 1997 his book on radiation protection provides clear coverage of essential concepts plus the latest technology and new recommendations of the International Commission on Radiological Protection A clear presentation of introductory concepts and essential physics explains the nature and scope of radiation protection and a discussion of the bioeffects of radiation provides rationale for today s protection concerns Coverage includes principles and objectives of radiation protection a system of dose limitations dose limits radiation dosimetry protection surveys expressions

of patient dose factors influencing radiation dose in imaging dose reduction techniques and quality assurance Safety issues are emphasized as well as recommendations for the prudent use of magnetic resonance imaging **Radiation Protection for Medical and Allied Health Personnel** National Council on Radiation Protection and Measurements,1989

Permissible Dose J. Samuel Walker,2000-11 How much radiation is too much This text examines the evolution over 100 years of radiation protection standards and efforts to ensure radiation safety for nuclear workers and the general public

Radiation Protection in Hospitals, Richard Francis Mould,1985 A comprehensive practical guide to radiation protection for medical and health care personnel covering the relevant applications to radiation therapy nuclear medicine and diagnostic radiology Useful to a wide range of readers working with radioisotopes and ionizing radiation but having different backgrounds training and needs Radiation Protection for Medical and Allied Health Personnel National Council on Radiation Protection and Measurements,1976 In hospital radiation facilities of all types safety procedures for protecting radiation workers and the general public must be carefully planned and supervised and controlled by a qualified staff member To meet currently accepted standards for protection the potential exposures of workers and anyone else in or near a radiation area are evaluated and precautions taken to avert the possibility of exceeding or even approaching the permissible radiation levels Radiation workers employed in these facilities are informed about these safety procedures However there are various individuals involved in the delivery of medical care or in research who are not usually categorized as radiation workers Their duties may occasionally take them into areas where radiation or radioactive materials are present For want of a better term we may group many of these individuals under the title of allied health personnel Among these are physicians nurses technicians and others who are not classified as radiation workers but who occasionally have to deal with radioactive materials or with patients who have received radiopharmaceuticals In addition there are others not directly involved in the care of patients or research who may incidentally be exposed to radiation in the course of their work Such for instance are personnel in institutional shipping and receiving rooms and those engaged in hospital maintenance work Many of these people are concerned about radiation hazards and often suffer misconceptions regarding the subject They sometimes work without instruction or guidance Sometimes they seek out someone to ask questions about radiation and do receive from them careful answers to their questions Too often however they are simply told that everything is all right and that they have no cause to worry One purpose of this report is to note the types of problems encountered and try to give approaches to handling them The Radiation Protection Supervisor is usually aware of potential hazards within an institution but sometimes the problems are not evident even to him From Preface pages iii iv **Radiation Protection** Gyoujin Cho,2013-10-02 **Radiation Protection A Systematic Approach to Safety** is a collection of papers that deals with the control management and prevention of toxic agents One paper presents design measures evaluated in a balanced program as a practicable method to lessen occupational radiation exposure Another paper cites the radiation protection aspects practiced in the

decommissioning of the Fuel Reprocessing Plant at Trombay which was designed to chemically process irradiated nuclear fuel One paper describes a methodology to evaluate a collective dose of exposure through different routes following the release of radioactive material into the atmosphere These routes include 1 inhalation of the material from the initial cloud or that arising from the ground 2 external irradiation from radioactive decay of the material in the cloud or in the air 3 and as ingestion of radionuclides transferred through the food chain One paper compares the chemical and radiation hazards to man using an analytical model based on radiation biological concepts at the molecular level to show the effects of other agents The analytical model is also capable of predicting that a synergistic interaction between two different mutagenic agents can occur at the molecular level The collection will prove useful for nuclear physicists and scientists occupational health professionals and researchers in the field of nuclear medicine and engineering

Radiation Protection In The Health Sciences (With Problem Solutions Manual) (2nd Edition) Marilyn E Noz,Gerald Q Maguire Jr,2007-04-12 This book

takes a very practical approach to radiation protection and presents very readable information for anyone working in the radiation field or with radioactive material Offering information rarely found elsewhere the authors describe in detail both the basic principles and practical implementation recommendations of radiation protection Each chapter includes self assessment review questions and problems with answers provided to help readers master important information Coupled with a teacher s manual this book is highly suitable as an undergraduate text for students preparing for careers as X ray radiation oncology or nuclear medicine technologists It can also be used as a reference for residents in radiology and radiation oncology medical personnel or anyone working with radioactive materials such as those involved in homeland security emergency services or employed at a nuclear power plant

Radiation Protection in the Radiologic and Health Sciences Marilyn E. Noz,Gerald Q. Maguire,1985 An Introduction to Radiation Protection Alan Martin,Sam Harbison,Karen Beach,Peter Cole,2018-10-25 This highly readable account of the nature of the hazards presented by ionizing radiation and the methods of protection is an ideal introductory text for those new to the field and for the non specialist The seventh edition continues to cover the technical principles underlying the control of radiation hazards radiation detection and measurement and the biological effects of radiation followed by a consideration of industry specific radiation protection issues Further specialised topics include risk assessment waste management and decommissioning radiological emergencies relevant legislation and organizational issues and new to this edition environmental radiation protection

Radiation Protection in Medical Imaging and Radiation Oncology Richard J. Vetter,Magdalena S. Stoeva,2016-01-05 Radiation Protection in Medical Imaging and Radiation Oncology focuses on the professional operational and regulatory aspects of radiation protection Advances in radiation medicine have resulted in new modalities and procedures some of which have significant potential to cause serious harm Examples include radiologic procedures that require ve

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Haynes, MSRS, RT(R),2013-12-04 A full color resource Radiation Protection in Medical Radiography 7th Edition makes it easy to understand both basic and complex concepts in radiation protection biology and physics Concise coverage promotes the safe use of ionizing radiation in all imaging modalities including the effects of radiation on humans at the cellular and systemic levels regulatory and advisory limits for human exposure to radiation and the implementation of radiation safety practices for patients and personnel This edition includes NEW content on the impact of radiation levels during the nuclear power plant crisis that followed the 2011 earthquake tsunami in Japan From an author team led by well known radiation protection expert Mary Alice Statkiewicz Sherer this text has consistently helped students perform well on the ARRT exam well written and easy to comprehend Reviewed by Kirsten Farrell on behalf of RAD Magazine March 2015 Full color illustrations reinforce important information Convenient easy to use features include chapter outlines and objectives highlighting of key terms and bulleted summaries and review questions to enhance comprehension and retention Clear and concise writing style covers complex concepts in radiation protection biology and physics in a building block approach from basic to more complex concepts Review questions are included at the end of chapters to assess your comprehension with answers on the Evolve companion website Coverage of historical radiological disasters includes photos and text on Hiroshima Chernobyl and Three Mile Island UPDATED NCRP and ICRP content includes guidelines regulations and radiation quantities and units explaining the effects of low level ionizing radiation demonstrating the link between radiation and cancer and other diseases and providing the regulatory perspective needed for practice NEW Discussion of Total Effective Dose Equivalent TEDE covers the radiation dosimetry quantity defined by the U S Nuclear Regulatory Commission to monitor and control human exposure to ionizing radiation NEW Coverage of the Fukushima Daiichi Nuclear Plant Crisis addresses the impact of radiation levels following Japan s earthquake tsunami in March 2011 NEW TRACE section covers the Tools for Radiation Awareness and Community Education program a two phase approach to radiation dose awareness and overall patient dose reduction through a joint venture of AHRA and Toshiba s Putting Patients First NEW Discussion of the FDA white paper Initiative to Reduce Unnecessary Exposure from Medical Imaging promotes the safe use of medical imaging devices supports informed clinical decision making and leads to increased patient awareness **Operational Radiation**

Safety--training National Council on Radiation Protection and Measurements,1983 Selected Materials on Radiation Protection Criteria and Standards: Their Basis and Use United States. Congress. Joint Committee on Atomic Energy,1960

An Introduction to Radiation Protection Alan D. Martin,Samuel A. Harbison,2013-11-11 Radiation Protection Jacob Shapiro,2002 This highly successful manual has served for nearly three decades as the definitive guide to the safe use of radioactive materials Completely revised and updated the fourth edition presents a new dimension by adding coverage of nonionizing radiation and is thus concerned with the entire field of radiation protection The author takes the novel approach of introducing the whole range of energies possessed by particles and electromagnetic waves at the beginning of the text

thus integrating coverage of ionizing and nonionizing radiation rather than considering them as two separate disciplines He goes on to cover the entire spectrum of radiation sources including radionuclides x ray machines accelerators nuclear reactors power lines microwave towers and cellular phones With its expanded coverage including a broader focus on public health issues this new volume will serve as an important training and reference resource not only for research scientists physicians and engineers but for regulatory officials attorneys engineers and environmental health and safety professionals The breadth of citations alone makes this resource invaluable

Radiation Protection in Medical Physics Yves

Lemoigne,Alessandra Caner,2011-04-14 This book introduces the fundamental aspects of Radiation Protection in Medical Physics and covers three main themes General Radiation Protection Principles Radiobiology Principles Radiation Protection in Hospital Medical Physics Each of these topics is developed by analysing the underlying physics principles and their implementation quality and safety aspects clinical performance and recent advances in the field Some issues specific to the individual techniques are also treated e g calculation of patient dose as well as that of workers in hospital optimisation of equipment used shielding design of radiation facilities radiation in oncology such as use of brachytherapy in gynecology or interventional procedures All topics are presented with didactical language and style making this book an appropriate reference for students and professionals seeking a comprehensive introduction to the field as well as a reliable overview of the most recent developments

Radiation Protection Jacob Shapiro,1981

Radiation Protection for Procedures Performed Outside the Radiology Department National Council on Radiation Protection and Measurements,2000 Provides practical recommendations on how to protect workers while performing X ray procedures outside the radiology department Coverage includes radiologic examinations in the cardiac catheterization laboratory and in the operating room sources of exposure to workers personal monitoring and administrative responsibilities There is no coverage of exposures from nuclear medicine or radiation therapy Appendices overview the nature of the biological effects of ionizing radiation and discuss basic medical imaging Includes a glossary Useful for clinical staff who conduct medical procedures radiation protection staff and those responsible for developing employee education and training programs Annotation copyrighted by Book News Inc Portland OR

Radiation protection United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on Energy, Nuclear Proliferation, and Federal Services,1979

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