

Introduction To Radiological Physics And Radiation Dosimetry Attix Solution Manual

This exercise book contains 300 typical problems and exercises in modern physics and radiation physics with complete solutions, detailed equations and graphs. This textbook is linked directly with the textbook "Radiation Physics for Medical Physicists", Springer (2010) but can also be used in combination with other related textbooks. For ease of use, this textbook has exactly the same organizational layout (14 chapters, 128 sections) as the "Radiation Physics for Medical Physicists" textbook and each section is covered by at least one problem with solution given. Equations, figures and tables are cross-referenced between the two books. It is the only large compilation of textbook material and associated solved problems in medical physics, radiation physics, and biophysics.

A new, comprehensively updated edition of the acclaimed textbook by F.H. Attix (Introduction to Radiological Physics and Radiation Dosimetry) taking into account the substantial developments in dosimetry since its first edition. This monograph covers charged and uncharged particle interactions at a level consistent with the advanced use of the Monte Carlo method in dosimetry; radiation quantities, macroscopic behaviour and the characterization of radiation fields and beams are covered in detail. A number

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of chapters include addenda presenting derivations and discussions that offer new insight into established dosimetric principles and concepts. The theoretical aspects of dosimetry are given in the comprehensive chapter on cavity theory, followed by the description of primary measurement standards, ionization chambers, chemical dosimeters and solid state detectors. Chapters on applications include reference dosimetry for standard and small fields in radiotherapy, diagnostic radiology and interventional procedures, dosimetry of unsealed and sealed radionuclide sources, and neutron beam dosimetry. The topics are presented in a logical, easy-to-follow sequence and the text is supplemented by numerous illustrative diagrams, tables and appendices. For senior undergraduate- or graduate-level students and professionals.

This renowned work is derived from the authors' acclaimed national review course ("Physics of Medical Imaging") at the University of California-Davis for radiology residents. The text is a guide to the fundamental principles of medical imaging physics, radiation protection and radiation biology, with complex topics presented in the clear and concise manner and style for which these authors are known. Coverage includes the production, characteristics and interactions of ionizing radiation used in medical imaging and the imaging modalities in which they are used, including radiography, mammography, fluoroscopy, computed tomography and nuclear medicine. Special attention is paid to optimizing patient dose in each of these modalities. Sections of the book address topics common to all forms of diagnostic imaging, including image quality

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and medical informatics as well as the non-ionizing medical imaging modalities of MRI and ultrasound. The basic science important to nuclear imaging, including the nature and production of radioactivity, internal dosimetry and radiation detection and measurement, are presented clearly and concisely. Current concepts in the fields of radiation biology and radiation protection relevant to medical imaging, and a number of helpful appendices complete this comprehensive textbook. The text is enhanced by numerous full color charts, tables, images and superb illustrations that reinforce central concepts. The book is ideal for medical imaging professionals, and teachers and students in medical physics and biomedical engineering. Radiology residents will find this text especially useful in bolstering their understanding of imaging physics and related topics prior to board exams.

Deals with radiation processing as a whole using a chemical perspective. Offers basic information on the procedures taking place and covers radiation dosimetry plus a wide range of actual and potential applications. Provides excellent coverage of radiation processing literature with bibliographies pertaining to key areas of radiation chemistry. From the reviews: 'The authors describe in English in the plainest fashion, and within hardly more than 100 pages, the theoretical and technical bases of magnetic resonance imaging. ...the book should be warmly recommended to anyone after they have become accustomed to MRI. In such circumstances this is a very comprehensive handbook, particularly useful as a reminder of the concepts of MRI.... a valuable

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technical handbook...' Surgical and Radiological Anatomy Vol. 26, Issue 3, 2004. The textbook begins with exercises related to radioactive sources and decay schemes. The problems covered include series decay and how to determine the frequency and energy of emitted particles in disintegrations. The next chapter deals with the interaction of ionizing radiation, including the treatment of photons and charged particles. The main focus is on applications based on the knowledge of interaction, to be used in subsequent work and courses. The textbook then examines detectors and measurements, including both counting statistics and properties of pulse detectors. The chapter that follows is dedicated to dosimetry, which is a major subject in medical radiation physics. It covers theoretical applications, such as different equilibrium situations and cavity theories, as well as experimental dosimetry, including ionization chambers and solid state and liquid dosimeters. A shorter chapter deals with radiobiology, where different cell survival models are considered. The last chapter concerns radiation protection and health physics. Both radioecology and radiation shielding calculations are covered. The textbook includes tables to simplify the solutions of the exercises, but the reader is mainly referred to important websites for importing necessary data.

One essential characteristic of life is the exchange of matter and energy between organisms and their environment. Radiation is a form of energy that has always been around in nature and will forever be the companion of human beings throughout life. In

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order to assess the impact of radiation exposures properly, it is essential to introduce appropriate quantities and units which can then be used for quantification of exposures from various sources. In principle, radiation protection is mainly aimed at controlling radiation exposure, while radiation dosimetry deals primarily with the measurement of relevant radiation quantities especially doses. This book is divided into two parts. The first contains up-to-date definitions of the most significant radiation quantities including their interpretation. In the second part, the exposures of both individuals and population at large to various types of natural and man-made sources are compared and discussed. The concept of quantities and units as well as analysis of exposure due to various sources in our environment is based on the latest, highly regarded authentic sources such as ICRU, ICRP, IAEA and particularly UNSCEAR reports and recommendations. The material reflects the latest review of the current terminology in radiation protection dosimetry and the contemporary assessment of radiation exposures of the population, radiation workers and patients.

Develop the skills you need to safely and effectively produce high-quality medical images with *Radiologic Science for Technologists: Physics, Biology, and Protection*, 11th Edition. Reorganized and updated with the latest advances in the field, this new edition aligns with the ASRT curriculum to strengthen your understanding of key concepts, and prepare you for success on the ARRT certification exam and in clinical practice. Firmly established as a core resource for medical imaging technology courses,

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this text gives you a strong foundation in the study and practice of radiologic physics, imaging and exposure, radiobiology, radiation protection, and more.

A straightforward presentation of the broad concepts underlying radiological physics and radiation dosimetry for the graduate-level student. Covers photon and neutron attenuation, radiation and charged particle equilibrium, interactions of photons and charged particles with matter, radiotherapy dosimetry, as well as photographic, calorimetric, chemical, and thermoluminescence dosimetry. Includes many new derivations, such as Kramers X-ray spectrum, as well as topics that have not been thoroughly analyzed in other texts, such as broad-beam attenuation and geometrics, and the reciprocity theorem. Subjects are layed out in a logical sequence, making the topics easier for students to follow. Supplemented with numerous diagrams and tables. This book presents an overview of the physics of radiation detection and its applications. It covers the origins and properties of different kinds of ionizing radiation, their detection and measurement, and the procedures used to protect people and the environment from their potentially harmful effects. It details the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content. It provides useful formulae and explains methodologies to solve problems related to radiation measurements. With abundance of worked-out examples and end-of-chapter problems, this book enables the reader to understand the underlying physical principles and their applications. Detailed discussions on different

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detection media, such as gases, liquids, liquefied gases, semiconductors, and scintillators make this book an excellent source of information for students as well as professionals working in related fields. Chapters on statistics, data analysis techniques, software for data analysis, and data acquisition systems provide the reader with necessary skills to design and build practical systems and perform data analysis. * Covers the modern techniques involved in detection and measurement of radiation and the underlying physical principles * Illustrates theoretical and practical details with an abundance of practical, worked-out examples * Provides practice problems at the end of each chapter

????:Physical principles of medical imaging

Encyclopedia of Medical Devices and Instrumentation John G. Webster, Editor-in-Chief
This comprehensive encyclopedia, the work of more than 400 contributors, includes 266 articles on devices and instrumentation that are currently or likely to be useful in medicine and biomedical engineering. The four volumes include 3,022 pages of text that concentrates on how technology assists the branches of medicine. The articles emphasize the contributions of engineering, physics, and computers to each of the general areas of medicine, and are designed not for peers, but rather for workers from related fields who wish to take a first look at what is important in the subject. Highly recommended for university biomedical engineering and medical reference collections, and for anyone with a science background or an interest in technology. Includes a

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78-page index, cross-references, and high-quality diagrams, illustrations, and photographs. 1988 (0 471-82936-6) 4-Volume Set Introduction to Radiological Physics and Radiation Dosimetry Frank Herbert Attix provides complete and useful coverage of radiological physics. Unlike most treatments of the subject, it encompasses radiation dosimetry in general, rather than discussing only its applications in medical or health physics. The treatment flows logically from basics to more advanced topics. Coverage extends through radiation interactions to cavity theories and dosimetry of X-rays, charged particles, and neutrons. Several important subjects that have never been thoroughly analyzed in the literature are treated here in detail, such as charged-particle equilibrium, broad-beam attenuation and geometries, derivation of the Kramers X-ray spectrum, and the reciprocity theorem, which is also extended to the nonisotropic homogeneous case. 1986 (0 471-01146-0) 607 pp. Medical Physics John R. Cameron and James G. Skofronick This detailed text describes medical physics in a simple, straightforward manner. It discusses the physical principles involved in the control and function of organs and organ systems such as the eyes, ears, lungs, heart, and circulatory system. There is also coverage of the application of mechanics, heat, light, sound, electricity, and magnetism to medicine, particularly of the various instruments used for the diagnosis and treatment of disease. 1978 (0 471-13131-8) 615 pp. Combining facets of health physics with medicine, An Introduction to Radiation Protection in Medicine covers the background of the subject and the medical

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situations where radiation is the tool to diagnose or treat human disease. Encouraging newcomers to the field to properly and efficiently function in a versatile and evolving work setting, it familiarizes them with the particular problems faced during the application of ionizing radiation in medicine. The text builds a fundamental knowledge base before providing practical descriptions of radiation safety in medicine. It covers basic issues related to radiation protection, including the physical science behind radiation protection and the radiobiological basis of radiation protection. The text also presents operational and managerial tools for organizing radiation safety in a medical workplace. Subsequent chapters form the core of the book, focusing on the practice of radiation protection in different medical disciplines. They explore a range of individual uses of ionizing radiation in various branches of medicine, including radiology, nuclear medicine, external beam radiotherapy, and brachytherapy. With contributions from experienced practicing physicists, this book provides essential information about dealing with radiation safety in the rapidly shifting and diverse environment of medicine.

This must-have text provides an insight into the science behind radiographic technology. Suitable for radiography and radiology students at all levels, the text uses illustrations and simple analogies to explain the fundamentals, while

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retaining more complex concepts for those with a more advanced knowledge of radiological physics. Updated by authors Martin Vosper, Andrew England and Victoria Major to reflect advances and key topics in medical imaging practice, this text will support radiographers in their core role of obtaining high quality images and optimal treatment outcomes. Strong links between theory and practice throughout, with updated clinical scenarios Clear and concise text featuring insight boxes and summary points More than 60 new diagrams Logically organised to match the order of delivery used in current teaching programmes in the UK Updated to reflect advances in medical imaging practice and changes to teaching curricula New information on X-ray exposure factors and their effect on the radiographic image; non-ionising radiation safety – MRI, ultrasound; mobile, portable and dental systems; multimodality imaging, registration and fusion; and the science of body tissue depiction; and PACS technology Enhanced focus on diagnostic imaging Evolve resources to support learning and teaching. Now revised to reflect the new, clinically-focused certification exams, Review of Radiological Physics, Fourth Edition, offers a complete review for radiology residents and radiologic technologists preparing for certification. . This new edition covers x-ray production and interactions, projection and tomographic imaging, image quality, radiobiology, radiation protection, nuclear medicine,

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ultrasound, and magnetic resonance – all of the important physics information you need to understand the factors that improve or degrade image quality. Each chapter is followed by 20 questions for immediate self-assessment, and two end-of-book practice exams, each with 100 additional questions, offer a comprehensive review of the full range of topics.

Designed to prepare candidates for the American Board of Health Physics Comprehensive examination (Part I) and other certification examinations, this monograph introduces professionals in the field to radiation protection principles and their practical application in routine and emergency situations. It features more than 650 worked examples illustrating concepts under discussion along with in-depth coverage of sources of radiation, standards and regulations, biological effects of ionizing radiation, instrumentation, external and internal dosimetry, counting statistics, monitoring and interpretations, operational health physics, transportation and waste, nuclear emergencies, and more. Reflecting for the first time the true scope of health physics at an introductory level, *Basic Health Physics: Problems and Solutions* gives readers the tools to properly evaluate challenging situations in all areas of radiation protection, including the medical, university, power reactor, fuel cycle, research reactor, environmental, non-ionizing radiation, and accelerator health physics.

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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

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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.

Introduction to Radiological Physics and Radiation Dosimetry John Wiley & Sons Issues in Diagnostics and Imaging / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Diagnostics and Imaging. The editors have built Issues in Diagnostics and Imaging: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Diagnostics and Imaging in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Diagnostics and Imaging: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is

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Since the publication of the best-selling, highly acclaimed first edition, the technology and clinical applications of medical imaging have changed significantly. Gathering these developments into one volume, Webb's Physics of Medical Imaging, Second Edition presents a thorough update of the basic physics, modern technology and many examples of clinical application across all the modalities of medical imaging. New to the Second Edition Extensive updates to all original chapters Coverage of state-of-the-art detector technology and computer processing used in medical imaging 11 new contributors in addition to the original team of authors Two new chapters on medical image processing and multimodality imaging More than 50 percent new examples and over 80 percent new figures Glossary of abbreviations, color insert and contents lists at the beginning of each chapter Keeping the material accessible to graduate students, this well-illustrated book reviews the basic physics underpinning imaging in medicine. It covers the major techniques of x-radiology, computerised tomography, nuclear medicine, ultrasound and magnetic resonance imaging, in

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addition to infrared, electrical impedance and optical imaging. The text also describes the mathematics of medical imaging, image processing, image perception, computational requirements and multimodality imaging.

A practical guide to the basic physics that radiation protection professionals need. A much-needed working resource for health physicists and other radiation protection professionals, this volume presents clear, thorough, up-to-date explanations of the basic physics necessary to address real-world problems in radiation protection. Designed for readers with limited as well as basic science backgrounds, *Physics for Radiation Protection* emphasizes applied concepts and carefully illustrates all topics through examples as well as practice problems. *Physics for Radiation Protection* draws substantially on current resource data available for health physics use, providing decay schemes and emission energies for approximately 100 of the most common radionuclides encountered by practitioners. Excerpts of the Chart of the Nuclides, activation cross sections, fission yields, fission-product chains, photon attenuation coefficients, and nuclear masses are also provided. Coverage includes: The atom as an energy system An overview of the major discoveries in radiation physics Extensive discussion of radioactivity, including sources and materials Nuclear interactions and processes of radiation dose Computational methods for radiation exposure, dose, and

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shielding Nuclear fission and production of activation and fission products
Specialty topics ranging from nuclear criticality and applied statistics to X rays
Extensive and current resource data cross-referenced to standard compendiums
Extensive appendices and more than 400 figures This complete discussion of the
basic concepts allows readers to advance their professional skills.

Written by radiographers for radiographers, *Essentials of Radiographic Physics and Imaging*, 2nd Edition follows the ASRT recommended curriculum and focuses on what the radiographer needs to understand to safely and competently perform radiographic examinations. This comprehensive radiologic physics and imaging text links the two subjects together so that you understand how they relate to each other - and to clinical practice. Prepare for success on the ARRT exam and the job with just the right amount of information on radiation production and characteristics, imaging equipment, film screen image acquisition and processing, digital image acquisition and display, image analysis, and the basic principles of computed tomography. 345 photos and line drawings encourage you to visualize important concepts. Strong pedagogy, including chapter objectives, key terms, outlines, bulleted chapter summaries, and specialty boxes, help you organize information and focus on what is most important in each chapter. Make the Physics Connection and Make the Imaging Connection boxes link physics

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and imaging concepts so you fully appreciate the importance of both subjects. Educator resources on Evolve, including lesson plans, an image collection, PowerPoint presentations, and a test bank, provide additional resources for instructors to teach the topics presented in the text. Theory to Practice boxes succinctly explain the application of concepts and describe how to use the information in clinical practice. Critical Concept boxes further explain and emphasize key points in the chapters. Math Application boxes use examples to show how mathematical concepts and formulas are applied in the clinical setting. An emphasis on the practical information highlights just what you need to know to ace the ARRT exam and become a competent practitioner. Numerous critique exercises teach you how to evaluate the quality of radiographic images and determine which factors produce poor images. A glossary of key terms serves as a handy reference. NEW! Updated content reflects the newest curriculum standards outlined by the ARRT and ASRT, providing you with the information you need to pass the boards. NEW! Critical Thinking Questions at the end of every chapter offer opportunity for review and greater challenge. NEW! Chapter Review Questions at the end of every chapter allow you to evaluate how well you have mastered the material in each chapter. NEW! Increased coverage of radiation protection principles helps you understand the ethical obligations to

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minimize radiation dosages, shielding, time and distance, how to limit the field of exposure and what that does to minimize dose, and technical factors and how they represent the quantity and quality of radiation. NEW! Conversion examples and sample math problems give you the practice needed to understand complex concepts. NEW! More images highlighting key concepts help you visualize the material. NEW! Expansion of digital image coverage and ample discussion on differentiating between digital and film ensures you are prepared to succeed on your exams. NEW! All-new section on manual vs. AEC use in Chapter 13 keeps you in the know. NEW and UPDATED! Expanded digital fluoroscopy section, including up-to-date information on LCD and Plasma displays, familiarizes you with the equipment you will encounter. NEW! Online chapter quizzes on Evolve feature 5-10 questions each and reinforce key concepts. NEW! PowerPoint presentations with new lecture notes on Evolve and in-depth information in the notes section of each slide make presenting quick and easy for instructors. Fundamental Physics of Radiology, Third Edition provides a general introduction to the methods involving radioactive isotopes and ultrasonic radiations. This book provides the fundamental principles upon which the clinical uses of radioactive isotopes and ultrasonic radiation depend. Organized into four sections encompassing 45 chapters, this edition begins with an overview of the basic facts

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about matter and energy. This text then examines the technical details of some practical X-ray tubes. Other chapters consider the action of the X-rays on the screen to produce an emission of visible light photons in amount proportional to the incident X-ray intensity. This book discusses as well the fundamental aspects of the physical principles of radiotherapy, in which most attention is being given to gamma- and X-rays. The final chapter deals with the provision of adequate barriers and protective devices to guarantee the safety of the workers concerned. This book is a valuable resource for radiologists, physicists, and scientists. The Topics Every Medical Physicist Should Know Tutorials in Radiotherapy Physics: Advanced Topics with Problems and Solutions covers selected advanced topics that are not thoroughly discussed in any of the standard medical physics texts. The book brings together material from a large variety of sources, avoiding the need for you to search through and digest the vast research literature. The topics are mathematically developed from first principles using consistent notation. Clear Derivations and In-Depth Explanations The book offers insight into the physics of electron acceleration in linear accelerators and presents an introduction to the study of proton therapy. It then describes the predominant method of clinical photon dose computation: convolution and superposition dose calculation algorithms. It also discusses the Boltzmann

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transport equation, a potentially fast and accurate method of dose calculation that is an alternative to the Monte Carlo method. This discussion considers Fermi–Eyges theory, which is widely used for electron dose calculations. The book concludes with a step-by-step mathematical development of tumor control and normal tissue complication probability models. Each chapter includes problems with solutions given in the back of the book. Prepares You to Explore Cutting-Edge Research This guide provides you with the foundation to read review articles on the topics. It can be used for self-study, in graduate medical physics and physics residency programs, or in vendor training for linacs and treatment planning systems.

This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics, a tri-annual high-level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine. The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare. It provides a unique and important forum to secure a coordinated, multileveled global response to the need, demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health.

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Understand every important aspect of health physics with this complete overview of the field. If it's an important topic in the field of health physics, you will find expert, well-written discussion of it in this trusted text. *Introduction to Health Physics, Fifth Edition* spans the entire scope of the field and offers an effective problem-solving approach that once mastered will serve you throughout your career. Logically divided into fourteen sections, beginning with a review of physical principles, coverage includes radiation sources, radiation dosimetry, radiation safety guidelines, evaluation of safety measures, and more. The Fifth Edition has been updated to reflect the many changes in the practice of ionizing and nonionizing radiation safety, in calculation methodology, and in the methods for demonstrating compliance with the safety standards that have occurred since publication of the previous edition. Learning and teaching aids include more than 470 Homework Problems and 175 Example Problems. The text concludes with seven valuable appendices, including Values of Some Useful Constants, Table of the Elements, and The Reference Person Overall Specifications. There truly is no better way to master the essentials of the dynamic field of health physics than *Introduction to Health Physics, Fifth Edition*.

This book begins with the basic terms and definitions and takes a student, step by step, through all areas of medical physics. The book covers radiation therapy, diagnostic radiology, dosimetry, radiation shielding, and nuclear medicine, all at a level suitable for undergraduates. This title not only describes the basic concepts of the field, but also

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emphasizes numerical and mathematical problems and examples. Students will find An Introduction to Medical Physics to be an indispensable resource in preparations for further graduate studies in the field.

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