Review Of Radiological Physics

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Nuclear Science Abstracts 1975-03

Wilhelm Conrad Röntgen Uwe Busch 2020-06-25 Es war eine der großen Sternstunden der Menschheit, als Wilhelm Conrad Röntgen (1845-1923) am 8. November 1895 eine neue Sorte von Strahlung entdeckte. Er selbst nannte sie bescheiden „X-Strahlen“. Sein Name und seine Strahlen wurden weltberühmt. Am 10. Dezember 1901 erhielt Röntgen für die Entdeckung und Erforschung der nach ihm benannten Röntgenstrahlen den ersten Nobelpreis für Physik. Röntgenstrahlen haben seitdem nichts an Attraktivität verloren. Sie durchdringen nach wie vor alle Bereiche der Wissenschaft und Technik und begleiten uns im alltäglichen Leben. Röntgens wissenschaftliches Wirken kann aber nicht nur reduziert werden auf diese eine großartige Entdeckung. Er war insgesamt ein exzellenter Naturforscher, sein Forschergeist ist heute noch Beispiel für viele Wissenschaftler. Auch sein Spezialgebiet der Präzisionsphysik ist aktueller denn je. Zu Röntgens 175. Geburtstag und dem 125-jährigen Jubiläum der Entdeckung der Röntgenstrahlen im Jahr 2020 ermöglicht das Deutsche Röntgen-Museum einen anderen Blick auf den herausragenden Naturforscher und gibt Einblicke in seinen persönlichen Nachlass. Statements von nationalen und internationalen Röntgenwissenschaftlern zeigen dabei eines sehr deutlich: „Röntgen hat Zukunft“. Der Herausgeber Der Herausgeber Uwe Busch ist Medizinphysiker und Direktor des Deutschen Röntgen-Museums. Gemeinsam mit dem neu gestalteten Geburtshaus von Wilhelm Conrad Röntgen ermöglichen beide Häuser einen fesselnden Einblick in das Leben und Werk Röntgens sowie das Erlebnis der eigenen Entdeckung der faszinierenden Welt der Röntgenstrahlen. Einer Welt, die sich über viele räumliche und zeitliche Dimensionen von den Nanowelten des Mikrokosmos bis hin zu den unendlichen Weiten des Kosmos und von der Vergangenheit bis in die Zukunft erstreckt. Alle Welt ist voller Röntgenstrahlung. Sie sinnvoll zu nutzen, ist und bleibt das Ziel von Wissenschaft und Forschung von gestern, heute und morgen. Wilhelm Conrad Röntgen würde genau daran seinen Spaß haben. Forschung zur Erweiterung des eigenen Horizonts, tiefe Freude am Erkenntnisgewinn und der Nutzen für die Menschheit.

Radiological Physics Examination Review Book Colin G. Orton 1971

Computed Tomography - E-Book Euclid Seeram 2022-06-16 Build the foundation necessary for the practice of CT scanning with Computed Tomography: Physical Principles, Patient Care, Clinical Applications, and Quality Control, 5th Edition. Written to meet the varied requirements of radiography students and practitioners, this two-color text provides comprehensive coverage of the physical principles of computed tomography and its clinical applications. The clear, straightforward approach is designed to improve your understanding of sectional anatomic images as they relate to computed tomography and facilitate communication between CT technologists and other medical personnel. Chapter outlines and chapter review questions help you focus your study time and master content. NEW! Three additional chapters reflect the latest industry CT standards in imaging: Radiation Awareness and Safety Campaigns in Computed Tomography, Patient Care Considerations, and Artificial Intelligence: An Overview of Applications in Health and Medical Imaging. UPDATED! More than 509 photos and line drawings visually clarify key concepts. UPDATED! The latest information keeps you up to date on advances in volume CT scanning; CT fluoroscopy; and multislice applications like 3-D imaging, CT angiography, and virtual reality imaging (endoscopy).

The Code of Federal Regulations of the United States of America 1991 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

Progress in Radiological Physics W. C. Roesch 1964

Introduction to Radiological Physics and Radiation Dosimetry Frank Herbert Attix 2008-09-26 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.

Review Oak Ridge National Laboratory 1975

Review of the International Atomic Policies and Programs of the United States Robert Moody McKinney 1960

Review of Electronic Products Radiation Hazards, Hearing Before the Subcommitte on Public Health and Welfare ... 91-1, May 23, 1969, Serial No. 91-21 United States. Congress. House. Interstate and Foreign Commerce 1969

Radiological Physics Examination Review Book Christopher H. Marshall 1971

Federal Advisory Committees ... Annual Report of the President, Covering the Calendar Year ... 1984

Facharztprüfung Radiologie Guido Albes 2017-04-26 Schätzen Sie Ihren Wissensstand realistisch ein und schließen Sie gezielt Wissenslücken. Mit über 1450 Originalfragen aus realen Facharztprüfungen gehen Sie optimal vorbereitet in die Prüfung - die Selbsttests und Lerntipps helfen Ihnen dabei. Trainieren, auf was es ankommt: - Mit perfekten Antworten im "trockenen" Technikteil punkten. - Die praxisorientierten Fallbeispiele Schritt für Schritt lösen. - Weiterführende neue Untersuchungstechniken und Interventionelle Radiologie. - Unter Berücksichtigung der aktuellen Leit- und Richtlinien. Jederzeit zugreifen: Die Fragen und Antworten des Buches stehen Ihnen ohne weitere Kosten digital im Trainingscenter in der Wissensplattform eRef und auch offline in der eRef-App zur Verfügung (Zugangscode im Buch).

Federal Register 1966-07

Radiological Physics Colin G. Orton 1971

Director's Report and Annual Plan for FY ... , National Cancer Program National Cancer Institute (U.S.) 1983

Quantenmechanik: Das Theoretische Minimum Leonard Susskind 2020-01-03 Was sind die Prinzipien der Quantenmechanik? Wie funktioniert Verschränkung? Was besagt das Bellsche Theorem? Mit diesem Buch gehen Leonard Susskind und Art Friedman eine Herausforderung an, die jeder Physik-Fan bewältigen will: die Quantenmechanik. Begeisterte Physik-Amateure bekommen die notwendige Mathematik und die Formeln an die Hand, die sie für ein wirkliches Verständnis benötigen. Mit glasklaren Erklärungen, witzigen und hilfreichen Dialogen und grundlegenden Übungen erklären die Autoren nicht alles, was es über Quantenmechanik zu wissen gibt – sondern alles Wichtige.

RT X-ray Physics Review Walter Huda 2011 Designed to help the x-ray technologist prepare for the Physics component of the American Registry of Radiologic Technologists (ARRT) examination. This book only addresses 60% of the AART examination that is directly related to Physics, the material that gives most students the greatest difficulty. Key aspects of RT X-Ray Physics Review are: Comprehensive Content: Identifies the important Physics facts that all students need to know to pass the Radiation Protection, Equipment Operation & Quality Control, Image Production & Evaluation sections' component of the AART examination. Organization: Presents the material in 15 chapters subdivided into four or five major topics to facilitate reading and understanding, with explanatory tables and figures in each topic. Questions: Includes 450 questions, 30 pertaining to each of 15 chapters, and two comprehensive tests of 100 questions each at the end of the book. Answers provided. Appendixes: Useful tables of radiologic quantities and units. Comprehensive Radiological Physics bibliography.

Radiological Physics Examination Review Book 1971

Recent Advances in Forensic Medicine & Toxicology Gautam Biswas 2021-05-31 This book is the third volume in the Recent Advances in Forensic Medicine and Toxicology series. Volume Two (9789352701247) published in 2018. Divided into five sections, the text provides specialists and trainees with the latest advances and technologies in their field. Section One introduces medical jurisprudence and ethical issues, followed by an extensive section on forensic pathology explaining different causes of death and appropriate approaches to autopsy. Section Three covers forensic radiology and immunology and Section 4 discusses forensic psychiatry examining issues such as sexual crimes, and marriage and divorce. The book concludes with a section on forensic science explaining the role of forensics experts in crime scene analysis and recent advances in examination and investigation techniques. Each chapter has been extensively researched and referenced. Topics are highly illustrated with photographs, diagrams, text boxes emphasising key points, tables and flowcharts. Key points Third volume in Recent Advances in Forensic Medicine & Toxicology series Provides clinicians and trainees with latest advances and technologies in the field Covers specialist topics such as legal obligations and ethical responsibilities Highly illustrated with photographs, diagrams, tables, flowcharts and key points boxes

Information Resources in Toxicology Steve Gilbert 2020-05-16 This new fifth edition of Information Resources in Toxicology offers a consolidated entry portal for the study, research, and practice of toxicology. Both volumes represents a unique, wide-ranging, curated, international, annotated bibliography, and directory of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology’s subdisciplines. This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools. Due to the increasing size of the hardcopy

publication, the current edition has been divided into two volumes to make it easier to handle and consult. Volume 1: Background, Resources, and Tools, arranged in 5 parts, begins with chapters on the science of toxicology, its history, and informatics framework in Part 1. Part 2 continues with chapters organized by more specific subject such as cancer, clinical toxicology, genetic toxicology, etc. The categorization of chapters by resource format, for example, journals and newsletters, technical reports, organizations constitutes Part 3. Part 4 further considers toxicology's presence via the Internet, databases, and software tools. Among the miscellaneous topics in the concluding Part 5 are laws and regulations, professional education, grants and funding, and patents. Volume 2: The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries, followed by a glossary of toxicological terms and an appendix of popular quotations related to the field. The book, offered in both print and electronic formats, is carefully structured, indexed, and cross-referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed. Among the many timely topics receiving increased emphasis are disaster preparedness, nanotechnology, -omics, risk assessment, societal implications such as ethics and the precautionary principle, climate change, and children's environmental health. Introductory chapters provide a backdrop to the science of toxicology, its history, the origin and status of toxicoinformatics, and starting points for identifying resources. Offers an extensive array of chapters organized by subject, each highlighting resources such as journals, databases,organizations, and review articles. Includes chapters with an emphasis on format such as government reports, general interest publications, blogs, and audiovisuals. Explores recent internet trends, web-based databases, and software tools in a section on the online environment. Concludes with a miscellany of special topics such as laws and regulations, chemical hazard communication resources, careers and professional education, K-12 resources, funding, poison control centers, and patents. Paired with Volume Two, which focuses on global resources, this set offers the most comprehensive compendium of print, digital, and organizational resources in the toxicological sciences with over 120 chapters contributions by experts and leaders in the field.

Radiologic Science for Technologists - E-Book Stewart C. Bushong 2013-12-27 Develop the skills and knowledge to make informed decisions regarding technical factors and diagnostic imaging quality with the vibrantly illustrated Radiologic Science for Technologists, 10th Edition. Updated with the latest advances in the field, this full-color and highly detailed edition addresses a broad range of radiologic disciplines and provides a strong foundation in the study and practice of radiologic physics, imaging, radiobiology, radiation protection, and more. Unique learning tools strengthen your understanding of key concepts and prepare you for success on the ARRT certification exam and in clinical practice. Broad coverage of radiologic science topics — including radiologic physics, imaging, radiobiology, radiation protection, and more — allows you to use the text over several semesters. Highlighted math formulas call attention to mathematical information for special focus. Important Concept boxes recap the most important chapter information. Colored page tabs for formulas, conversion tables, abbreviations, and other data provide easy access to frequently used information. End-of-chapter questions include definition exercises, short answer, and calculations to help you review material. Key terms and expanded glossary enable you to easily reference and study content. Chapter introductions, summaries, objectives, and outlines help you organize and pinpoint the most important information. NEW! Chapters on digital radiographic technique and digital image display prepare you to use today's technology. NEW! Streamlined physics and math sections ensure you are prepared to take the ARRT exam and succeed in the clinical setting.

Basic Radiology, Second Edition Michael Chen 2010-08-06 A well-illustrated, systems-based primer on learning radiologic imaging 4 STAR DOODY'S REVIEW! "Overall, this is a high quality book and a nice quick reference that is surprisingly complete for its size. The copious and well-chosen images are particularly valuable. It would be a good addition to the libraries of radiology departments, especially for medical students who are interested in radiology as a specialty and for radiology residents at the beginning of their training."--Doody's Review Service Basic Radiology is the easiest and most effective way for medical students, residents, and clinicians not specializing in radiologic imaging to learn the essentials of diagnostic test selection, application, and interpretation. This trusted guide is unmatched in its ability to teach you how to select and request the most appropriate imaging modality for a patient's presenting symptoms and familiarize yourself with the most common diseases that current radiologic imaging can best evaluate. Features: More than 800 high-quality images across all modalities A logical organ-system approach Consistent chapter presentation that includes: ---Recap of recent developments in the radiologic imaging of the organ system discussed ---Description of normal anatomy ---Discussion of the most appropriate imaging technique for evaluating that organ system ---Questions and imaging exercises designed to enhance your understanding of key principles Brief list of suggested readings and general references Timely chapter describing the various diagnostic imaging techniques currently available, including conventional radiography, nuclear medicine, ultrasonography, computed tomography, and magnetic resonance imaging An important chapter providing an overview of the physics of radiation and its related biological effects, ultrasound, and magnetic resonance imaging

Annual Report National Cancer Institute (U.S.). Division of Cancer Prevention and Control 1980

Imaging Physics Case Review E-Book R. Brad Abrahams 2019-01-01 Master the critical physics content you

need to know with this new title in the popular Case Review series. Imaging Physics Case Review offers a highly illustrated, case-based preparation for board review to help residents and recertifying radiologists succeed on exams and demonstrate a clinical understanding of physics, patient safety, and improvement of imaging accuracy and interpretation. Presents 150 high-yield case studies organized by level of difficulty, with multiple-choice questions, answers, and rationales that mimic the format of certification exams. Uses short, easily digestible chapters and high-quality illustrations for efficient, effective learning and exam preparation. Discusses current advances in all modalities, ensuring that your study is up-to-date and clinically useful. Covers today's key physics topics including radiation safety and methods to prevent patient harm; how to reduce artifacts; basics of radiation doses including dose reduction strategies; cardiac CT physics; advanced ultrasound techniques; and how to optimize image quality using physics principles. Enhanced eBook version included with purchase, which allows you to access all of the text, figures, and references from the book on a variety of devices

Radiological Physics Examination Review Book Colin G. Orton 1978

Review of Radiation Oncology Physics Satish C. Prasad 2002-01-01 This book is a resource for comprehensive study in therapeutic radiological physics and was designed primarily to help radiation oncology residents and radiation therapists study for the radiological physics portion of the board and registry examinations. It will also be helpful to dosimetrists who are preparing for board certification. It assumes a background in radiation oncology physics and is not intended to replace the standard radiation oncology physics texts. Rather, its purpose is to refresh and reinforce the basic concepts of radiation physics which residents, technologists, and dosimetrists are expected to know. Because radiation oncology has been greatly impacted by recent developments in technology and new treatment modalities, an entire chapter has been devoted to some of the new modalities. At the end of the book, sample questions have been provided so that readers can self test their knowledge.

Diagnostic Radiology Physics International Atomic Energy Agency 2013-03-01 This publication is aimed at students and teachers involved in programmes that train medical physicists for work in diagnostic radiology. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of modern diagnostic radiology. This makes it particularly useful for graduate students and residents in medical physics programmes. The material presented in the publication has been endorsed by the major international organisations and is the foundation for academic and clinical courses in both diagnostic radiology physics and in emerging areas such as imaging in radiotherapy.

Osborn's brain Anne G. Osborn 2019-05-20 Der renommierte Bestseller der weltbekannten Neuroradiologin Anne G. Osborn jetzt auch auf Deutsch. Die fast vollständig überarbeitete zweite Auflage, wurde vom 12-köpfigen Expertenteam der Neuroradiologie der Charité übersetzt und mit der im deutschsprachigen Raum üblichen lateinischen Nomenklatur versehen. Anne G. Osborn gibt Einblick in ihre sehr erfahrene Arbeitsweise und bietet Ihnen einen vollständigen Überblick über die gesamte Bandbreite neuroradiologischer Krankheitsbilder. Dabei wird die Bildgebung der jeweiligen Entität - eingebettet in den Kontext von Ätiologie, Pathologie, Klinik und Therapie - vermittelt, abgerundet durch praxisrelevante differenzialdiagnostische Überlegungen. Zum Wiederholen, Nachschlagen oder dem Bildvergleich bei herausfordernden Befunden sind die vielen Abbildungen von typischen und varianten pathologischen Befunden sowie zusammenfassende Informationskästchen extrem nützlich. In über 3.300 Bildern verbindet die "Grande Dame" der Neuroradiologie Anatomie und Pathologie mit der Bildgebung und zeigt, wie Krankheiten im Gehirn aussehen und warum sie genau so aussehen, wie sie aussehen. . Von harmlosen Normvarianten über häufig auftretende Pathologien bis zu seltenen Kolibris - Osborns Brain lässt keine Frage offen. Abgedeckt sind z.B. Trauma, spontane Blutungen, Schlaganfälle und vaskuläre Läsionen, Infektionen, demyelinisierende und entzündliche Erkrankungen, Neoplasien, metabolisch-toxische und degenerative Erkrankungen sowie angeborene zerebrale Fehlbildungen. Brain enthält zahlreiche Neuerungen, wie die neue WHO-Klassifikation der ZNS-Tumoren, die aktualisierten Mc Donald Kriterien der MS, etliche neue Entitäten, einschließlich der IgG4-assoziierten Erkrankungen und des CLIPPERS, neue und aufkommende Infektionskrankheiten sowie aktualisierte Erkenntnisse über Schädel-Hirn-Traumata und neurodegenerative Erkrankungen. Die Pluspunkte auf einen Blick: Osborns einzigartiges didaktisches Konzept, das Bildgebung, anatomische Illustration und Text optimal verbindet Lateinische Strukturbezeichnungen statt englischer Nomina -erleichtert das Lernen und Verstehen der sehr komplexen Neuroradiologie Vollständiges, tiefgehendes internationales Referenzwerk bei gleichzeitig guter praktischer Nutzbarkeit zur schnellen Information, Rekapitulation oder Bildvergleich durch ausführliches Inhaltsverzeichnis, zahlreiche hochqualitative Abbildungen und grafisch hervorgehobene zusammenfassende Informationskästchen

The Essential Physics of Medical Imaging Jerrold T. Bushberg 2011-12-20 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 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.

Code of Federal Regulations 2003 Special edition of the Federal Register, containing a codification of documents of general applicability and future effect ... with ancillaries.

Differenzialdiagnosen in der Computertomografie Francis A. Burgener 2012

A Comprehensive Guide to Radiographic Sciences and Technology Euclid Seeram 2021-08-09 A comprehensive and succinct guide to radiographic physics and imaging, covering all the core components of the radiographic sciences, including digital imaging production and equipment, radiation protection and safety, and the principles of Computed Tomography. Designed to support students preparing to sit certification and board examinations, including the American Registry for Radiologic Technologists (ARRT) and other global radiography certification examinations. Addresses the core radiographic science components of the ASRT curriculum, including digital imaging production and equipment, radiation protection and safety, and the principles of Computed Tomography. Useful for students and practitioners in diagnostic medical radiation technology, radiography and medical radiation sciences, as well as in biomedical engineering technology.

ACR BI-RADS®-Atlas der Mammadiagnostik American College of Radiology 2016-08-02 Dieses Buch ist die offiziell genehmigte, deutsche Übersetzung des ACR BI-RADS®-Atlas in seiner fünften Auflage. Der ACR BI-RADS®-Atlas ist ein qualitätssicherndes Werkzeug zur Standardisierung des Berichtswesens, der Unklarheiten in der Befundung der Mammadiagnostik wie auch bei den Vorschlägen zum weiteren Vorgehen verringern soll. Er macht die Ergebnisse von Instituten wie auch von einzelnen Befundern vergleichbarer und leichter kontrollierbar und verbessert somit die Versorgungsqualität für die Patientinnen. Inhalt: Der ACR BI-RADS®-Atlas umfasst das Spektrum der in der Praxis etablierten und wissenschaftlich fundierten Bildgebung der Mamma und besteht aus vier Teilen Mammografie, Sonographie der Mamma, Magnetresonanztomografie der Mamma sowie Nachkontrolle und Ergebnisüberwachung, in dem das klinisch relevante Audit und das erweiterte Audit der medizinischen Qualitätskontrolle erläutert werden. Nach einem jeweils einführenden Kapitel zu den drei bildgebenden diagnostischen Methoden folgt ein Atlasteil mit klaren Angaben zu den diagnostischen Kriterien wie Form, Rand, Verkalkungen, Kriterien der Kontrastmittelaufnahme etc., die sich durch klare Definitionen und einheitliche Benennungen auszeichnen. Für jedes Beschreibungskriterium wird hochqualitatives Bildmaterial gezeigt. Danach erläutert jeweils ein Kapitel, wie ein Befund erstellt werden sollte. Ziel ist es, anhand einer klaren und eindeutigen Diktion ohne adjektivische Ausschmückungen die Malignitätswahrscheinlichkeit einer Veränderung einzustufen, die sog. Festlegungskategorien 0-6 nach BI-RADS®, und auf dieser Grundlage ebenso klare Handlungsempfehlungen zur weiteren Aufarbeitung auszusprechen, die vom Vergleich mit Voraufnahmen über weitere bildgebende Diagnostik bis zur Empfehlung der Gewebediagnose mittels Biopsie reichen. Eingehend werden die Unterschiede von Screening- und diagnostischen Kategorisierungen abgehandelt. Der Leser findet jeweils im Kapitel "Hilfestellung" praktischen Rat zur Anwendung der deskriptiven Terminologie der einzelnen Verfahren, zur richtigen Verwendung der BI-RADS® Kategorien und zur Konkordanz von Befund und Handlungsempfehlung, abgeschlossen durch ein Schlusskapitel mit häufig gestellten Fragen und den Antworten darauf. Am Ende der diagnostischen Kapitel stehen komprimierte Formblätter, die dem Leser als Vorlage zu seinem Befundungssystem dienen können. Damit geht dieses Buch weit über den Rahmen eines Atlas hinaus, es ist eine große normative Hilfe für alle Probleme der Screening- und der diagnostischen Bildgebung.

Measurements for the Safe Use of Radiation Sherman P. Fivozinsky 1976

Radiologic Science for Technologists Stewart C. Bushong 2008 This ... text addresses a broad range of radiologic disciplines, providing a strong foundation in the study and practice of radiologic physics, imaging, radiobiology, [and] radiation protection.-Back cover.

Accelerator Radiation Physics for Personnel and Environmental Protection J. Donald Cossairt 2019-05-06 Choice Recommended Title, January 2020 Providing a vital resource in tune with the massive advancements in accelerator technologies that have taken place over the past 50 years, Accelerator Radiation Physics for Personnel and Environmental Protection is a comprehensive reference for accelerator designers, operators, managers, health and safety staff, and governmental regulators. Up-to-date with the latest developments in the field, it allows readers to effectively work together to ensure radiation safety for workers, to protect the environment, and adhere to all applicable standards and regulations. This book will also be of interest to graduate and advanced undergraduate students in physics and engineering who are studying accelerator physics. Features: Explores accelerator radiation physics and the latest results and research in a comprehensive single volume, fulfilling a need in the market for an up-to-date book on this topic Contains

problems designed to enhance learning Addresses undergraduates with a background in math and/or science **Review of Radiologic Physics** Walter Huda 2016-01-20 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, 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.

Pränatale Strahlenexposition aus medizinischer Indikation Hans-Karl Leetz 1990

Radiological Physics Colin G. Orton 1971