

Dosimetrie In De Radiologie Stralingsbelasting Van De

Computed tomography (CT) is a powerful technique providing precise and confident diagnoses. The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population. Despite investigations supporting the use of lower radiation doses, surveys highlight the lack of proper understanding of CT parameters that affect radiation dose. Dynamic advances in CT technology also make it important to explain the latest dose-saving strategies in an easy-to-comprehend manner. This book aims to review all aspects of the radiation dose from CT and to provide simple rules and tricks for radiologists and radiographers that will assist in the appropriate use of CT technique. The second edition includes a number of new chapters on the most up-to-date strategies and technologies for radiation dose reduction while updating the outstanding contents of the first edition. Vendor perspectives are included, and an online image gallery will also be available to readers.

This book reviews ionising radiation quantities and the relationships between them and discusses the principles underlying their measurement. The emphasis is on the determination of absorbed dose and related dosimetric quantities.

Evidence-Based Orthodontics, Second Edition retains important elements of the First Edition, with several new sections to improve its use as a quick and comprehensive reference. New updated edition of a landmark text that surveys the principles and practice of evidence-based orthodontics Offers practical strategies for professionals to incorporate EBO in their daily practices Presents brief summaries of the best evidence for a wide range of clinical topics Incorporates information from over 400 systematic reviews, listed by topic

Voorts een alfabetische lijst van Nederlandsche boeken in België uitgegeven.

This book considers in depth all the factors that influence the radiation dose and the risk associated with MDCT in children and adults. Only a small proportion of referring clinicians, radiologists, and technologists are aware of both the radiation risks and their underlying mechanisms. The book proposes detailed guidelines for optimization of the radiation dose when using MDCT. It is written by experts of international standing.

This book covers relevant concepts in nuclear cardiology, combining imaging techniques and clinical data to do so. Today, nuclear cardiology is a worldwide discipline connected to the broader field of cardiovascular imaging. The combination of clinical aspects (symptoms, medications, previous cardiac procedures), ancillary exams and nuclear images is key to decision-making in clinical practice. Thus, a book on this topic is essential to provide better outcomes for cardiology patients. The chapters cover a comprehensive range of topics in current cardiology practice, such as ambulatory patients, patients in emergency settings, patients after complex cardiac procedures, and patients during and after the use of cancer therapies that are potentially toxic for the heart (cardio-oncology). As such, multiple clinical scenarios are also presented: patients with suspected coronary disease, patients with heart failure of unknown origin, patients with acute chest pain in the emergency department, patients with suspected pulmonary embolism, patients with complications of the left ventricular assist device, etc. Furthermore, the book describes nuclear cardiology procedures and techniques, discusses the main clinical indications and scenarios for each procedure, presents new technological advances in the field (machine learning and artificial intelligence tools), and mentions the coronavirus disease 2019 (COVID-19) pandemic. Given its scope, the book offers a valuable guide and videos for various medical professionals, especially cardiologists and nuclear physicians.

This book provides a comprehensive yet accessible overview of all relevant topics in the field of radiation protection (health physics). The text is organized to introduce the reader to basic principles of radiation emission and propagation, to review current knowledge and historical aspects of the biological effects of radiation, and to cover important operational topics such as radiation shielding and dosimetry. The author's website contains materials for instructors including PowerPoint slides for lectures and worked-out solutions to end-of-chapter exercises. The book serves as an essential handbook for practicing health physics professionals.

Diagnostic Ultrasound: Musculoskeletal was written by leading experts in the field as an ideal source for the high-intensity radiological and clinical practices of today. This quick, up-to-date reference employs a user-friendly, practically applicable format and is well suited for radiologists, sonographers, rheumatologists, orthopaedic surgeons, sports physicians, and physiotherapists alike. Complete coverage of ultrasound anatomy, diagnosis, differential diagnosis and ultrasound-guided interventional procedures combines with thousands of illustrative clinical cases and schematic diagrams to make this new resource among the most comprehensive available on the market. Readily accessible chapter layout with succinct, bulleted teaching points and almost 3,000 high-quality illustrative clinical cases and schematic designs. All-inclusive section on musculoskeletal ultrasound anatomy, as well as a comprehensive interventional section covering musculoskeletal ultrasound. Approaches musculoskeletal ultrasound from two different viewpoints: that of a specific diagnosis (Dx section), followed by that of a specific ultrasound appearance (DDx section). Differential diagnosis section features supportive images and text outlining the key discriminatory features necessary in reaching the correct diagnosis. Provides a solid understanding of musculoskeletal ultrasound anatomy and pathology.

This book aims to describe the current state of knowledge and possible future developments in a number of major areas of research into the nature, causes and treatment of cancer. The contributing authors have been encouraged to discuss their subjects at the molecular level. It will become apparent to the reader that considerable developments in the understanding of the fundamental nature of cancer, in molecular terms, are constantly being made. This is particularly the case in the area of oncogene research where differences between tumour and normal cells can now be defined in terms of altered expression of DNA sequences. An understanding of the methods available for detecting cancer, of the process of carcinogenesis and of the means available for treating cancer can only be achieved with a precise knowledge of the basic biochemical and molecular processes involved. Since it is all too easy for the research scientist to become totally absorbed within the specialised area of research in which he is involved, the first chapter is an attempt to encourage a broader field of vision by introducing the clinician's view

of the cancer problem, which illustrates the broad spectrum of basic problems that need to be solved by the cancer researcher.

In June 1998 the Fourth International Workshop on Digital Mammography was held in Nijmegen, The Netherlands, where it was hosted by the department of Radiology of the University Hospital Nijmegen. This series of meetings was initiated at the 1993 SPIE Biomedical Image Processing Conference in San Jose, USA, where a number of sessions were entirely devoted to mammographic image analysis. At very successful subsequent workshops held in York, UK (1994) and Chicago, USA (1996), the scope of the conference was broadened, establishing a platform for presentation and discussion of new developments in digital mammography. Topics that are addressed at these meetings are computer-aided diagnosis, image processing, detector development, system design, observer performance and clinical evaluation. The goal is to bring researchers from universities, breast cancer experts, and engineers together, to exchange information and present new scientific developments in this rapidly evolving field. This book contains all the scientific papers and posters presented at the workshop in Nijmegen. Contributions came from as many as 20 different countries and 190 participants attended the meeting. At a technical exhibit companies demonstrated new products and work in progress. Abstracts of all papers were reviewed by members of the scientific committee. Many of the accepted papers had excellent quality, but due to limited space not all of them could be included as full papers in these proceedings. Papers that were rated high by the reviewers are included as long or short papers, others appear as extended abstracts in the last chapter.

This second edition of European Union Politics provides an authoritative introduction to all aspects of politics and policy in the EU. It gives readers a sense of the colour and flavour of EU politics, while systematic coverage of different theoretical perspectives encourages a more sophisticated understanding of the EU's development and function.

Guidelines for the clinical practice of medicine have been proposed as the solution to the whole range of current health care problems. This new book presents the first balanced and highly practical view of guidelines--their strengths, their limitations, and how they can be used most effectively to benefit health care. The volume offers Recommendations and a proposed framework for strengthening development and use of guidelines. Numerous examples of guidelines. A ready-to-use instrument for assessing the soundness of guidelines. Six case studies exploring issues involved when practitioners use guidelines on a daily basis. With a real-world outlook, the volume reviews efforts by agencies and organizations to disseminate guidelines and examines how well guidelines are functioning--exploring issues such as patient information, liability, costs, computerization, and the adaptation of national guidelines to local needs.

ICRP Publication 75 reports comprehensively on the principles for the protection of workers from ionising radiation. It develops guidance on the implementation of the principles in the 1990 Recommendations of the ICRP (ICRP Publication 60), including the concepts of constraint and reference levels. The report discusses the management of occupational exposure in normal and emergency situations, in Industrial and medical contexts, and with respect to natural sources of radiation, including radon, at work. Health surveillance of workers and the management of overexposed individuals are considered. This report updates ICRP Publication 28 with respect to principles and procedures for handling emergency and accidental exposures of workers, and, by laying out the principles of monitoring for external radiation, completely replaces ICRP Publication 35.

Monitoring for radionuclide contamination is also discussed. The report should also be of interest to a wide readership including all those responsible for occupational health, at operational and managerial levels, as well as regulatory bodies and professional organisations.

"...this report is concerned with both the design and operational aspects of veterinary radiation equipment, and matters relating to structural shielding design. While much of this material is already contained in Reports 33 and 34, this report presents the pertinent information which is applicable to the veterinary use of radiation. The NCRP believes that it is important for each radiation user in veterinary practice to be thoroughly familiar with the pertinent recommendations. If these remained embedded in the more comprehensive recommendations covering the whole radiation field, the availability of the information and the usefulness to the veterinarian would be somewhat limited. This report is intended to serve as a guide to good practice. It provides basic standards which may be used in the preparation of regulatory protection codes but is not specifically written for literal adoption as legal regulations..." --From Preface, pages iii-iv.

This cutting-edge guide to value-based radiology provides readers with the latest information on all aspects of the subject. Healthcare delivery is experiencing a rapid transition towards a value-based model, the underlying idea being that providers are paid on the basis of patient's health outcomes rather than the total services delivered. Radiology departments are facing many challenges as they attempt to improve operational efficiency, performance, and quality in order to keep pace with this transition. In the first part of this book, readers will find information on the theoretical basis and general concepts of value-based radiology. The second part focuses on value-based practice in specific areas of radiology: neuro/head and neck, thoracic, abdominopelvic, musculoskeletal, breast, cardiovascular, and pediatric. All topics are discussed by prominent experts in a clearly organized and well-illustrated form that will help readers to gain the most from each chapter. The book will be a valuable resource for radiologists and healthcare managers working in public or private institutions, as well as an excellent quick reference guide for all other physicians interested in the topic.

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Radiology Fundamentals is a concise introduction to the dynamic field of radiology for medical students, non-radiology house staff, physician assistants, nurse practitioners, radiology assistants, and other allied health professionals. The goal of the book is to provide readers with general examples and brief discussions of basic radiographic principles and to serve as a curriculum guide, supplementing a radiology education and providing a solid foundation for further learning. Introductory chapters provide readers with the fundamental scientific concepts underlying the medical use of imaging modalities and technology, including ultrasound, computed tomography, magnetic resonance imaging, and nuclear medicine. The main scope of the book is to present concise chapters organized by anatomic region and radiology sub-specialty that highlight the radiologist's role in diagnosing and treating common diseases, disorders, and

conditions. Highly illustrated with images and diagrams, each chapter in Radiology Fundamentals begins with learning objectives to aid readers in recognizing important points and connecting the basic radiology concepts that run throughout the text. It is the editors' hope that this valuable, up-to-date resource will foster and further stimulate self-directed radiology learning—the process at the heart of medical education.

A illustrated survey of the career and influence of a master of design showcases some of his most famous and influential works, including the Coca-Cola bottle and truck, the package for Lucky Strike cigarettes, and the Studebaker automobile.

This book is designed to serve as an up-to-date reference on the use of cone-beam computed tomography for the purpose of 3D imaging of the craniofacial complex. The focus is in particular on the ways in which craniofacial 3D imaging changes how we think about conventional diagnosis and treatment planning and on its clinical applications within orthodontics and oral and maxillofacial surgery. Emphasis is placed on the value of 3D imaging in visualizing the limits of the alveolar bone, the airways, and the temporomandibular joints and the consequences for treatment planning and execution. The book will equip readers with the knowledge required in order to apply and interpret 3D imaging to the benefit of patients. All of the authors have been carefully selected on the basis of their expertise in the field. In describing current thinking on the merits of 3D craniofacial imaging, they draw both on the available scientific literature and on their own translational research findings.

This Code of Practice, which has also been endorsed by WHO, PAHO and ESTRO, fulfils the need for a systematic and internationally unified approach to the calibration of ionization chambers in terms of absorbed dose to water and to the use of these detectors in determining the absorbed dose to water for the radiation beams used in radiotherapy. It provides a methodology for the determination of absorbed dose to water in the low, medium and high energy photon beams, electron beams, proton beams and heavy ion beams used for external radiation therapy.

This book comprehensively covers application of salvage therapy in recurrent prostate cancer. Chapters focus on specific issues associated with a range of surgical and oncological management techniques and strategies including hormone therapy, lymphnode dissection, robotic prostatectomy and salvage reirradiation after locoregional failure. Learning objectives, and definitions of keywords are provided to aid the reader develop a thorough understanding of the topic and reinforce the key points covered in each chapter. Salvage Therapy for Prostate Cancer provides a detailed practically applicable guide on how salvage therapy can be utilised in the treatment of prostate cancer. It represents a valuable resource for trainee and practicing urologists, oncologists, and specialist nurses.

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