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one of a kind handbook unequaled for practical use by professionals and concerned laypeople essentially a usable supplement to gofman s radiation and human health it is

Radiation G. W. C. Kaye Joseph Selman

designed to provide the data needed for evaluating health effects specifically risk of cancer from diagnostic x rays and to identify opportunities for dose reduction easily understood instructions for adjustments and conversions are given an immense amount of information is organized according to type of x ray body part sex age and risk of future disease

the discovery of x rays has revolutionized many areas of 20th century science this book commemorates the 100th anniversary of the discovery of x rays by wilhelm rontgen in 1895 eminent scientists review historical aspects and discuss modern techniques and applications

a century of x rays and radioactivity in medicine with emphasis on photographic records of the early years celebrates three great discoveries x rays 1895 radioactivity 1896 and radium 1898 and recalls the pioneering achievements that founded the new science of radiology and changed the face of medicine forever over 700 historical illustrations with full and informative captions are supported by short introductory essays to illuminate the fascinating radiological past in an easy to read style the focus of this book is on the historically more interesting early years of discovery invention diagnosis therapy dosimetry risk and protection interspersed with a variety of radiological anecdotes the photographic record is complemented by archival accounts of the pioneer scientists and physicians and their early patients in the chapters on diagnostic techniques radiotherapy and nuclear medicine the author contrasts old methods with newer technologies he also includes two fascinating chapters on museum and industrial applications of radiography the book is comprehensively indexed for easy retrieval of the wide variety of people techniques apparatus and examples featured throughout this radiological journey

the foundation of the human body is our bones whether it s in regard to health or even a skeleton costume on halloween the discovery of the x ray machine has greatly improved our understanding of the human body and its bones the technology for x rays dated back to the late nineteenth century but was in plain sight for years until their true potential was discovered by accident this volume introduces readers to the story of their discovery and how they ve changed medicine for the better ever since

what do a nuclear bomb a mummy a counterfeit bill and a broken arm have in common the answer is x ray technology most people are probably familiar with the x rays used in medicine which can show organs within a body this book explores the history of radiography and how it came to be one of the most useful tools in medicine it also delves

into the limits of radiography and the effects of ionizing radiation on living things it further investigates many other uses of x rays including nuclear weaponry and counterfeit detection

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this book gives a comprehensive account of modern x ray science based on the use of synchrotron radiation and x ray free electron lasers xfels it emphasizes the new capabilities of xfels which extend the study of matter to the intrinsic timescales associated with the motion of atoms and chemical transformations and give birth to the new field of non linear x ray science starting with the historical understanding of the puzzling nature of light it covers the modern description of the creation properties and detection of x rays within quantum optics it then presents the formulation of the interactions of x rays with atomic matter both from semi classical and first principles quantum points of view the fundamental x ray processes and techniques absorption emission thomson and resonant scattering rexs and rixs are reviewed with emphasis on simple intuitive pictures that are illustrated by experimental results concepts of x ray imaging and diffractive imaging of atomic and nano structures are discussed and the quantum optics formulation of diffraction is presented that reveals the remarkable quantum substructure of light the unique power of x rays in providing atom and chemical bond specific information and separating charge and spin phenomena through x ray polarization dichroism effects are highlighted the book concludes with the discussion of many photon or non linear x ray phenomena encountered with xfels such as stimulated emission and x ray transparency

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the book covers all x ray modalities including ct mammography fluoroscopy dental radiography and fusion imaging like pet ct and spect ct it simplifies complex concepts for beginners while offering depth for advanced learners each chapter is engaging and addresses common questions from students and professionals the book begins with radiation science basics starting with what is radiation and expanding through seven subsections to build a solid foundation the chapter on x ray tubes introduces essential concepts for understanding other modalities subsequent chapters explore the physics operational principles quality control and safety of each modality the fusion imaging section provides detailed insights into pet ct and spect ct quality assurance enabling readers to perform these procedures independently radiation safety topics include specific guidance for female patients female radiation workers and faetal exposure chapters on paediatric care and global radiology department planning offer practical insights each chapter concludes with multiple choice short answer and long answer questions to reinforce learning and aid exam preparation written in clear accessible language the book integrates hardware quality control and clinical applications into one volume aligned with international curricula this indispensable resource is ideal for radiography students technologists researchers and professionals seeking to enhance their knowledge and skills in medical imaging

this new edition successfully combines elements of radiographic technique with interpretation information for readers five sections cover the concepts of radiologic imaging radiographic techniques and procedures special imaging techniques radiation health and assessment and interpretation based on the oral and maxillofacial radiology guidelines published by the american association of dental schools this unique book features numerous high quality photographs radiographs and line drawings new information on digital radiography radiation health periodontal disease and image assessment is included as well as chapter review questions case based questions and workshop and laboratory exercises to help readers prepare for certification sample multiple choice and case based questions for the national and state board certification examinations are also included

containing chapter contributions from over 130 experts this unique publication is the first handbook dedicated to the physics and technology of x ray imaging offering extensive coverage of the field this highly comprehensive work is edited by one of the world s leading experts in x ray imaging physics and technology and has been created with guidance from a scientific board containing respected and renowned scientists from

around the world the book s scope includes 2d and 3d x ray imaging techniques from soft x ray to megavoltage energies including computed tomography fluoroscopy dental imaging and small animal imaging with several chapters dedicated to breast imaging techniques 2d and 3d industrial imaging is incorporated including imaging of artworks specific attention is dedicated to techniques of phase contrast x ray imaging the approach undertaken is one that illustrates the theory as well as the techniques and the devices routinely used in the various fields computational aspects are fully covered including 3d reconstruction algorithms hard software phantoms and computer aided diagnosis theories of image quality are fully illustrated historical radioprotection radiation dosimetry quality assurance and educational aspects are also covered this handbook will be suitable for a very broad audience including graduate students in medical physics and biomedical engineering medical physics residents radiographers physicists and engineers in the field of imaging and non destructive industrial testing using x rays and scientists interested in understanding and using x ray imaging techniques the handbook s editor dr paolo russo has over 30 years experience in the academic teaching of medical physics and x ray imaging research he has authored several book chapters in the field of x ray imaging is editor in chief of an international scientific journal in medical physics and has responsibilities in the publication committees of international scientific organizations in medical physics features comprehensive coverage of the use of x rays both in medical radiology and industrial testing the first handbook published to be dedicated to the physics and technology of x rays handbook edited by world authority with contributions from experts in each field

the new edition of this book is a complete guide to medical x ray film processing and digital radiography divided into ten chapters the first half of the book examines fundamental concepts x ray production the film darkroom cassette and intensifying screens processing and image quality with the increasing use of computed radiography and reduced use of x ray in modern medicine the second half of the book discusses the differences in quality viewing and recording quality assurance and health and safety aspects of digital radiography the second edition has been fully revised with many new topics added to present the latest advances in the field the comprehensive text is formatted in an easy to follow manner accompanied by x ray and digital images figures and tables providing trainees with an invaluable learning tool key points comprehensive guide to medical x ray film processing and digital radiography fully revised second edition with many new topics highly illustrated with x ray and digital images figures and tables previous edition 9788180613982 published in 2005

no detailed description available for modern x ray analysis on single crystals

this book is intended to provide a treatment of the production properties and applications of x rays suitable for undergraduate courses in physics it is hoped that parts of it at least will be useful to students on other courses in physics materials science metallurgy chemistry engineering etc at various levels it is also hoped that parts of it will serve as an introduction to the subject of x ray crystallography and to this end the treatment of x ray diffraction has been designed to show the relation between the simple approach and the more sophisticated treatments during many years of teaching this subject to degree diploma in technology and higher national certificate students i have been unable to find a single book which attempts to cover the whole of this field this lack of a treatment of x rays and their applications in one volume has prompted me to attempt to fill the gap and this present volume is the result obviously in writing such a book i have referred to many existing books and i acknowledge my indebtedness to the authors of all the books which i have used i believe that all these books are included in the references at the ends of the chapters but if i have omitted any then my apologies are offered to the authors concerned

x ray imaging remains a cornerstone of diagnostic radiology offering critical insights into patient health x ray imaging technique guides readers through the principles and practices of x ray interpretation from foundational knowledge to advanced diagnostic applications the book emphasizes systematic approaches to analyzing x rays with tips and examples to help practitioners identify subtle findings designed for medical students and healthcare professionals this resource aims to enhance competence and confidence in radiology bridging gaps in traditional medical education

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