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ICRP Publication 135 ICRP, 2017-10-29

Audio IC Circuits Manual R. M. Marston 2015-07-14 Audio IC Circuits Manual is a single-volume practical "user" information and circuitry guide to the most popular and useful of audio and audio-associated integrated circuits. This book deals with ICs such as low frequency linear amplifiers, dual pre-amplifiers, audio power amplifiers, charged-coupled device delay lines, bar-graph display drivers, and power supply regulators. This book is divided into seven chapters that focus on the application of these devices in circuits ranging from simple signal conditioners and filters to complex graphic equalizers, stereo amplifier systems, and echo/reverb delay line systems. Chapters 1 to 4 deal with pure "audio" subjects, such as audio processing circuits, audio pre-amplifier circuits, and audio power amplifier circuits. Chapters 5 and 6 consider audio-associated subjects of light-emitting diode bar-graph displays, and CCD delay-line circuits. Chapter 7 deals with power supply circuits for use in audio systems. This manual is intended primarily to design engineers, technicians, and electronic students.

Weedopedia Adams Media 2020-01-21 Discover everything you've ever wanted to know about marijuana all in one place with this authoritative A-to-Z guide to cannabis! What's a wake and bake? Who is Mitch Hedberg? What does Louisa May Alcott have to do with cannabis? And what exactly is the difference between a bong and a bubbler? Now you can "weed" all about it and find all the answers and more with this entertaining and updated edition of Weedopedia, your guide to everything marijuana—from the best movies to watch while high to cannabis slang and terminology. Whether you're interested in learning more about all things marijuana, or if you want something entertaining to read while enjoying a toke, this book is the one-stop-shop for all your weed-related needs.

Regression Analysis Jim Frost 2019-03-07 Intuitively understand regression analysis by focusing on concepts and graphs rather than equations and formulas. I use everyday language so you can grasp regression at a deeper level. Progress from a beginner to a skilled practitioner. Learn practical tips for performing your analysis and interpreting the results. Feel confident that you're analyzing your data properly and able to trust your results. Know that you can detect and correct problems that arise. Includes access to free downloadable datasets for the examples. Learn the following: How regression works and when to use it. Selecting the correct type of regression analysis. Specifying the best model. Understanding main effects, interaction effects, and modeling curvature. Interpreting the results. Assessing the fit of the model. Generating

predictions and evaluating their precision. Checking the assumptions and resolving issues. Examples of different types of regression analyses.

Analysing REDD+: Challenges and choices Arild Angelsen 2012-01-01

Maxillofacial Cone Beam Computed Tomography William C. Scarfe 2018-01-04 The book provides a comprehensive description of the fundamental operational principles, technical details of acquiring and specific clinical applications of dental and maxillofacial cone beam computed tomography (CBCT). It covers all clinical considerations necessary for optimal performance in a dental setting. In addition overall and region specific correlative imaging anatomy of the maxillofacial region is described in detail with emphasis on relevant disease. Finally imaging interpretation of CBCT images is presented related to specific clinical applications. This book is the definitive resource for all who refer, perform, interpret or use dental and maxillofacial CBCT including dental clinicians and specialists, radiographers, ENT physicians, head and neck, and oral and maxillofacial radiologists.

Assistive Technology Assessment Handbook Stefano Federici 2017-11-23 Assistive Technology Assessment Handbook, Second Edition, proposes an international ideal model for the assistive technology assessment process, outlining how this model can be applied in practice to re-conceptualize the phases of an assistive technology delivery system according to the biopsychosocial model of disability. The model provides reference guidelines for evidence-based practice, guiding both public and private centers that wish to compare, evaluate, and improve their ability to match a person with the correct technology model. This second edition also offers a contribution to the Global Cooperation on Assistive Technology (GATE) initiative, whose activities are strongly focused on the assistive products service delivery model. Organized into three parts, the handbook: gives readers a toolkit for performing assessments; describes the roles of the assessment team members, among them the new profession of psychotechnologist; and reviews technologies for rehabilitation and independent living, including brain-computer interfaces, exoskeletons, and technologies for music therapy. Edited by Stefano Federici and Marcia J. Scherer, this cross-cultural handbook includes contributions from leading experts across five continents, offering a framework for future practice and research.

EPA-440/9 1975

Financial Reporting Standard for Smaller Entities Accounting Standards Board (Great Britain) 2007

Construction Management of Healthcare Projects Sanjiv Gokhale 2013-12-22 A complete, practical guide to managing healthcare facility construction projects Filled with best practices and the latest industry trends, Construction Management of Healthcare Projects describes the unique construction requirements of hospitals, including building components, specialized functions, codes, and regulations. Detailed case studies offer invaluable insight into the real-world application of the concepts presented. This authoritative resource provides in-depth information on how to safely and successfully deliver high-quality healthcare construction projects on time and within budget. Coverage includes: Regulations and codes impacting hospitals Planning and predesign Project budgeting Business planning and pro formas Healthcare project financing Traditional delivery methods for healthcare

projects Modern project delivery methods and alternate approaches The challenges of additions and renovations Mechanical and electrical systems in hospitals Medical technology and information systems Safety and infection control Commissioning of healthcare projects Occupying the project The future of healthcare construction

Caribbeana Vere Langford Oliver 2021-02-15 Caribbeana: Being Miscellaneous Papers Relating To The History, Genealogy, Topography, And Antiquities Of The British West Indies (Volume - I)has been considered by academicians and scholars of great significance and value to literature. This forms a part of the knowledge base for future generations. So that the book is never forgotten we have represented this book in a print format as the same form as it was originally first published. Hence any marks or annotations seen are left intentionally to preserve its true nature.

The Athenaeum 1886

Human-Centered Software Engineering Cristian Bogdan 2018-12-31 This book constitutes the refereed post-conference proceedings of the 7th IFIP WG 13.2 International Conference on Human-Centered Software Engineering, HCSE 2018, held in Sophia Antipolis, France, in September 2018. The 11 full papers and 7 short papers presented together with 5 poster and demo papers were carefully reviewed and selected from 36 submissions. The papers focus on the interdependencies between user interface properties and contribute to the development of theories, methods, tools and approaches for dealing with multiple properties that should be taken into account when developing interactive systems. They are organized in the following topical sections: HCI education and training; model-based and model-driven approaches; task modeling and task-based approaches; tools and tool support; and usability evaluation and UI testing.

Clinical Cardiac Electrophysiology Mark E. Josephson 1993-01-01 The purpose of this book is to provide the internist and clinical cardiologist with the means to understand the capabilities and limitations of clinical cardiac electrophysiologic techniques so as to enable them to select patients who will benefit from such studies.

Processing 2 Jan Vantomme 2012-09-20 Over 100 highly-effective recipes to help unleash your creativity with interactive art, graphics, computer vision, 3D, and more

The Dreamer's Handbook Al-Jibaly 2018-12-04 The book deals with dream interpretation, its correct rules and procedures, drills to help understand these rules, and a large glossary of interpreted dream symbols. This, we hope, fulfills important goals regarding sleep and dreams and eliminates a great deal of superstition that surrounds them.

Process Mining in Healthcare Ronny S. Mans 2015-03-12 What are the possibilities for process mining in hospitals? In this book the authors provide an answer to this question by presenting a healthcare reference model that outlines all the different classes of data that are potentially available for process mining in healthcare and the relationships between them. Subsequently, based on this reference model, they explain the application opportunities for process mining in this domain and discuss the various kinds of analyses that can be performed. They focus on organizational healthcare processes rather than

medical treatment processes. The combination of event data and process mining techniques allows them to analyze the operational processes within a hospital based on facts, thus providing a solid basis for managing and improving processes within hospitals. To this end, they also explicitly elaborate on data quality issues that are relevant for the data aspects of the healthcare reference model. This book mainly targets advanced professionals involved in areas related to business process management, business intelligence, data mining, and business process redesign for healthcare systems as well as graduate students specializing in healthcare information systems and process analysis.

Electrophysiologic Testing Richard N. Fogoros, MD 2008-04-15 Following the huge success of previous editions, Electrophysiological Testing 4th edition is the must have resource for students, residents, cardiology fellows, primary care physicians, cardiologists, nurses, and technicians because it: clarifies the role of electrophysiology in the evaluation of cardiac arrhythmias discusses advances in therapeutic electrophysiology keeping you completely up to date provides clear summaries of complex topics is written in a user-friendly and understandable writing style to make the information easy to digest and recall includes an entirely new chapter on the key field of Cardiac Resynchronisation Reviews of previous edition: “Many times I have found that EP literature is very tied to research results and bogs down the primary topic and makes it difficult to understand. This book explains EP in plain English! I think it is in a class by itself." EP Technician, Galichia Heart Hospital, Wichita, KS, USA "It gives a good understanding of EP without getting too technical and complex in the explanations. It accomplishes a major task of “demystifying” the field of EP. It not only addresses the needs of non technical EP Personnel, but also provides a precise overview of EP for general review.” Cardiac NP, St. Jude's Medical Center

Articulating Design Thinking Paul Rodgers 2012 Articulating Design Thinking contains a collection of thought-provoking papers from researchers based in eight different countries around the world Sweden, Italy, Denmark, Israel, UK, USA, Australia and Turkey that all deal with articulations of design thinking from a variety of disciplinary perspectives. These include: architecture, inclusive design, industrial design and interaction design. The phrase design thinking has become cemented in our everyday lexicon. Design thinking now routinely extends, so it is claimed, to contemporary forms of design, engineering, business and management practice. Often viewed as a particular style of creative thinking-in-action design thinking, we are told, can transform the way we develop products, services, processes and even strategy. A lot of work has been published in recent years on the subject of design thinking and how designers think and act. A frequently held consensus across this work is the notion that design thinking has a number of common features that are typified and manifested in strong commitment and personal motivation of the individual. It is widely suggested that designers possess the courage to take risks, they are prepared to fail and that they are motivated and committed to work hard. Designers, during their design thinking activities, regularly (re)define and/or frame problems; they adopt holistic thinking and they sketch, visualise and model possible ideas throughout their design processes. This book examines the many facets of design thinking across a range of different design domains through comparing and contrasting the processes, methods and approaches contained within this thought-provoking collection of papers.

Patient Dosimetry for X-rays Used in Medical Imaging 2005

Hemodynamic Monitoring Michael R. Pinsky 2019-02-21 This book, part of the European Society of Intensive Care Medicine textbook series, teaches readers how to use hemodynamic monitoring, an essential skill for today's intensivists. It offers a valuable guide for beginners, as well as for experienced intensivists who want to hone their skills, helping both groups detect an inadequacy of perfusion and make the right choices to achieve the main goal of hemodynamic monitoring in the critically ill, i.e., to correctly assess the cardiovascular system and its response to tissue oxygen demands. The book is divided into distinguished sections: from physiology to pathophysiology; clinical assessment and measurements; and clinical practice achievements including techniques, the basic goals in clinical practice as well as the more appropriate hemodynamic therapy to be applied in different conditions. All chapters use a learning-oriented style, with practical examples, key points and take home messages, helping readers quickly absorb the content and, at the same time, apply what they have learned in the clinical setting. The European Society of Intensive Care Medicine has developed the Lessons from the ICU series with the vision of providing focused and state-of-the-art overviews of central topics in Intensive Care and optimal resources for clinicians working in Intensive Care.

Medical Robotics Jocelyne Troccaz 2013-03-01 In this book, we present medical robotics, its evolution over thelast 30 years in terms of architecture, design and control, and themain scientific and clinical contributions to the field. For more than two decades, robots have been part of hospitals andhave progressively become a common tool for the clinician. Becausethis domain has now reached a certain level of maturity it seemsimportant and useful to provide a state of the scientific,technological and clinical achievements and still openissues. This book describes the short history of the domain, itsspecificity and constraints, and mature clinical application areas.It also presents the major approaches in terms of design andcontrol including man-machine interaction modes. A large state ofthe art is presented and many examples from the literature areincluded and thoroughly discussed. It aims to provide both a broad and summary view of this veryactive domain as well as keys to understanding the evolutions ofthe domain and to prepare for the future. An insight to clinicalevaluation is also proposed, and the book is finished with achapter on future developments for intra-body robots.

Environmental Genomics C. Cristofre Martin 2008-01-18 Here is a manual for an environmental scientist who wishes to embrace genomics to answer environmental questions. The volume covers: gene expression profiling, whole genome and chromosome mutation detection, and methods to assay genome diversity and polymorphisms within a particular environment. This book provides a systematic framework for determining environmental impact and ensuring human health and the sustainability of natural populations.

Grandad Mandela Ambassador Zindzi Mandela 2018-06-28 "...profoundly moving..." -Publishers Weekly Nelson Mandela's two great-grandchildren ask their grandmother, Mandela's youngest daughter, 15 questions about their grandad - the global icon of peace and forgiveness who spent 27 years in prison. They learn that he was a freedom fighter who put down his weapons for the sake of peace, and who then became the President of South Africa and a Nobel Peace Prize-winner, and realise that they can continue his legacy in the world today. Seen through a child's perspective, and authored jointly by Nelson Mandela's great-grandchildren and daughter, this amazing story is told as never before to celebrate what would have been Nelson's Mandela 100th birthday.

Bob and Tom Get a Dog Cecilia Minden 2021 "Siblings Bob and Tom get a dog with spots. This A-level story uses decodable text to raise confidence in early readers. The book uses a combination of sight words and short-vowel words in repetition to build recognition. Original illustrations help guide readers through the text."--

Textbook of Catheter-Based Cardiovascular Interventions Peter Lanzer 2018-04-30 This book is a fully updated and revised second edition of a highly successful text in which a new concept of knowledge mining, based on explication and transfer of interventional knowledge of experts, has been implemented. The dedicated training program that is set out will serve the needs of all interventional operators, whether cardiologists, vascular surgeons, vascular specialists, or radiologists, enabling them to achieve a consistent expert level across the entire broad spectrum of catheter-based interventions. Operator skills - and in particular decision-making and strategic skills - are the most critical factors for the outcome of catheter-based cardiovascular interventions. Currently, such skills are commonly developed by the empirical trial and error method only. The explicit teaching, training, and learning approach adopted in this book permits the rapid transfer of interventional knowledge and enables individual operators to negotiate steep learning curves and acquire complex skills in a highly efficient manner. It will thereby offer invaluable assistance in meeting successfully the challenges of modern cardiovascular care.

Biomedical Instrumentation and Measurements Leslie Cromwell 2011

Functional Neuroradiology Scott H. Faro 2011-09-08 Functional Neuroradiology: Principles and Clinical Applications, is a follow-up to Faro and Mohamed's groundbreaking work, Functional (BOLD)MRI: Basic Principles and Clinical Applications. This new 49 chapter textbook is comprehensive and offers a complete introduction to the state-of-the-art functional imaging in Neuroradiology, including the physical principles and clinical applications of Diffusion, Perfusion, Permeability, MR spectroscopy, Positron Emission Tomography, BOLD fMRI and Diffusion Tensor Imaging. With chapters written by internationally distinguished neuroradiologists, neurologists, psychiatrists, cognitive neuroscientists, and physicists, Functional Neuroradiology is divided into 9 major sections, including: Physical principles of all key functional techniques, Lesion characterization using Diffusion, Perfusion, Permeability, MR spectroscopy, and Positron Emission Tomography, an overview of BOLD fMRI physical principles and key concepts, including scanning methodologies, experimental research design, data analysis, and functional connectivity, Eloquent Cortex and White matter localization using BOLD fMRI and Diffusion Tensor Imaging, Clinical applications of BOLD fMRI in Neurosurgery, Neurology, Psychiatry, Neuropsychology, and Neuropharmacology, Multi-modality functional Neuroradiology, Beyond Proton Imaging, Functional spine and CSF imaging, a full-color Neuroanatomical Brain atlas of eloquent cortex and key white matter tracts and BOLD fMRI paradigms. By offering readers a complete overview of functional imaging modalities and techniques currently used in patient diagnosis and management, as well as emerging technology, Functional Neuroradiology is a vital information source for physicians and cognitive neuroscientists involved in daily practice and research.

Informatics in Medical Imaging George C. Kagadis 2011-10-17 Informatics in Medical Imaging provides a comprehensive survey of the field of medical imaging informatics. In addition to radiology, it also addresses other specialties such

as pathology, cardiology, dermatology, and surgery, which have adopted the use of digital images. The book discusses basic imaging informatics protocols, picture archiving and communication systems, and the electronic medical record. It details key instrumentation and data mining technologies used in medical imaging informatics as well as practical operational issues, such as procurement, maintenance, teleradiology, and ethics. Highlights Introduces the basic ideas of imaging informatics, the terms used, and how data are represented and transmitted Emphasizes the fundamental communication paradigms: HL7, DICOM, and IHE Describes information systems that are typically used within imaging departments: orders and result systems, acquisition systems, reporting systems, archives, and information-display systems Outlines the principal components of modern computing, networks, and storage systems Covers the technology and principles of display and acquisition detectors, and rounds out with a discussion of other key computer technologies Discusses procurement and maintenance issues; ethics and its relationship to government initiatives like HIPAA; and constructs beyond radiology The technologies of medical imaging and radiation therapy are so complex and computer-driven that it is difficult for physicians and technologists responsible for their clinical use to know exactly what is happening at the point of care. Medical physicists are best equipped to understand the technologies and their applications, and these individuals are assuming greater responsibilities in the clinical arena to ensure that intended care is delivered in a safe and effective manner. Built on a foundation of classic and cutting-edge research, Informatics in Medical Imaging supports and updates medical physicists functioning at the intersection of radiology and radiation.

Statistical Methods in Diagnostic Medicine Xiao-Hua Zhou 2014-08-21 Praise for the First Edition " . . . the book is a valuable addition to the literature in thefield, serving as a much-needed guide for both clinicians andadvanced students."—Zentralblatt MATH A new edition of the cutting-edge guide to diagnostic tests inmedical research In recent years, a considerable amount of research has focusedon evolving methods for designing and analyzing diagnostic accuracystudies. Statistical Methods in Diagnostic Medicine, Second Editioncontinues to provide a comprehensive approach to the topic, guidingreaders through the necessary practices for understanding thesestudies and generalizing the results to patient populations. Following a basic introduction to measuring test accuracy andstudy design, the authors successfully define various measures ofdiagnostic accuracy, describe strategies for designing diagnosticaccuracy studies, and present key statistical methods forestimating and comparing test accuracy. Topics new to the SecondEdition include: Methods for tests designed to detect and locate lesions Recommendations for covariate-adjustment Methods for estimating and comparing predictive values andsample size calculations Correcting techniques for verification and imperfect standardbiases Sample size calculation for multiple reader studies when pilotdata are available Updated meta-analysis methods, now incorporating randomeffects Three case studies thoroughly showcase some of the questions andstatistical issues that arise in diagnostic medicine, with allassociated data provided in detailed appendices. A related web sitefeatures Fortran, SAS®, and R software packages so thatreaders can conduct their own analyses. Statistical Methods in Diagnostic Medicine, Second Edition is anexcellent supplement for biostatistics courses at the graduatelevel. It also serves as a valuable reference for clinicians andresearchers working in the fields of medicine, epidemiology, andbiostatistics.

Technical Fundamentals of Radiology and CT G Avendaño Cervantes 2016-05-26

Innovative Neuromodulation Jeffrey E. Arle 2017-02-14 Innovative Neuromodulation serves as an extensive reference that includes a basic introduction to the relevant aspects of clinical neuromodulation that is followed by an in-depth discussion of the innovative surgical and therapeutic applications that currently exist or are in development. This information is critical for neurosurgeons, neurophysiologists, bioengineers, and other proceduralists, providing a clear presentation of the frontiers of this exciting and medically important area of physiology. As neuromodulation remains an exciting and rapidly advancing field-appealing to many disciplines-the editors' initial work (Essential Neuromodulation, 2011) is well complemented by this companion volume. Presents a comprehensive reference on the emerging field of neuromodulation that features chapters from leading physicians and researchers in the field Provides commentary for perspectives on different technologies and interventions to heal and improve neurological deficits Contains 300 full-color pages that begin with an overview of the clinical phases involved in neuromodulation, the challenges facing therapies and intraoperative procedures, and innovative solutions for better patient care

ICRP Publication 37 International Commission on Radiological Protection. Committee 4 1983 ICRP Publication 26 summarized the recommended basic system of dose limitation into three interrelated components, abbreviated as: (i) The justification of the practice. (ii) The optimization of radiation protection. (iii) The limits of the individual dos equivalent. This report is concerned primarily with the second of these components of te system of dose limitation, the optimization of radiation protection, and with the rationale and techniques to establish what is reasonably achievable in the control of radiation exposures. A wide range of techniques is available to optimize radiation protection. Some of these techniques are drawn from operational research, some from economics and some from engineering. The use of a given technique implies, explicitly or implicitly, value judgements about the possible objectives of optimization. Techniques for use in the optimization of radiation protection include, but are not confined to, the procedures based on cost-benefit analysis and it is these procedures that are discussed in detail in this report. It is important to recognize that other techniques, some quantitative, some more qualitative, may also be used in the optimization of radiation protection.

Data Science Fundamentals and Practical Approaches Dr. Gypsy Nandi 2020-06-02 Learn how to process and analysis data using Python KEY FEATURES - The book has theories explained elaborately along with Python code and corresponding output to support the theoretical explanations. The Python codes are provided with step-by-step comments to explain each instruction of the code. - The book is not just dealing with the background mathematics alone or only the programs but beautifully correlates the background mathematics to the theory and then finally translating it into the programs. - A rich set of chapter-end exercises are provided, consisting of both short-answer questions and long-answer questions. DESCRIPTION This book introduces the fundamental concepts of Data Science, which has proved to be a major game-changer in business solving problems. Topics covered in the book include fundamentals of Data Science, data preprocessing, data plotting and visualization, statistical data analysis, machine learning for data analysis, time-series analysis, deep learning for Data Science, social media analytics, business analytics, and Big Data analytics. The content of the book describes the fundamentals of each of the Data Science related topics together with illustrative examples as to how various data analysis techniques can be implemented using different tools and libraries of Python programming language. Each chapter contains numerous

examples and illustrative output to explain the important basic concepts. An appropriate number of questions is presented at the end of each chapter for self-assessing the conceptual understanding. The references presented at the end of every chapter will help the readers to explore more on a given topic. WHAT WILL YOU LEARN Perform processing on data for making it ready for visual plot and understand the pattern in data over time. Understand what machine learning is and how learning can be incorporated into a program. Know how tools can be used to perform analysis on big data using python and other standard tools. Perform social media analytics, business analytics, and data analytics on any data of a company or organization. WHO THIS BOOK IS FOR The book is for readers with basic programming and mathematical skills. The book is for any engineering graduates that wish to apply data science in their projects or wish to build a career in this direction. The book can be read by anyone who has an interest in data analysis and would like to explore more out of interest or to apply it to certain real-life problems. TABLE OF CONTENTS 1. Fundamentals of Data Science1 2. Data Preprocessing 3. Data Plotting and Visualization 4. Statistical Data Analysis 5. Machine Learning for Data Science 6. Time-Series Analysis 7. Deep Learning for Data Science 8. Social Media Analytics 9. Business Analytics 10. Big Data Analytics

Adult Reference Computational Phantoms C. H. Clement 2009 This report describes the development and intended use of the computational phantoms of the Reference Male and Reference Female. In its recent recommendations (ICRP Publication 103: Recommendations of the ICRP. Annals of the ICRP 37(2-3) (2007)), the ICRP adopted these computational phantoms for forthcoming updates of organ dose coefficients for both internal and external radiation sources. The phantoms are based on medical image data of real persons, yet are consistent with the data given in ICRP Publication 89 on the reference anatomical and physiological parameters for both male and female subjects. The reference phantoms are constructed after modifying the voxel models (Golem and Laura) of two individuals whose body height and mass resembled the reference data. The organ masses of both models were adjusted to the ICRP data on the adult Reference Male and Reference Female, without compromising their anatomic realism. This report describes the methods used for this process and the characteristics of the resulting computational phantoms. The Introduction summarises the main reasons for constructing these phantoms - voxel phantoms being the state of the art, and the necessity of compliance with the anatomical characteristics of the ICRP 89 Reference Male and Reference Female . Chapter 2 summarises the specifications of the computational phantoms with respect to external dimensions and the source and target regions that are required; Chapter 3 characterises the previously segmented voxel models Golem and Laura that are the origin of the reference phantoms; Chapter 4 sketches the modifications that had to be applied to these models to create voxel models of the Reference Male and Reference Female; Chapter 5 is a description of the resulting reference computational phantoms of the Reference Male and Reference Female; and Chapter 6 indicates their applications and highlights their limitations. The phantoms' technical description is contained in Appendices A-H that form the larger part of this Publication. The numerical data representing the phantoms are contained on an electronic data storage medium (CD-ROM) that accompanies the printed publication. One of the aims of the report is to assist those who want to implement the phantoms for their own calculations. Furthermore, to illustrate the uses of these phantoms, graphical illustrations of conversion coefficients for some external and internal exposures are included in Appendices I-L. A comprehensive set of recommended values will be published in separate reports. Keywords: Computational phantoms, voxel models, Reference Male, Reference

Female

Percutaneous Image-Guided Biopsy Kamran Ahrar 2013-10-22 This book provides a comprehensive source for all aspects of percutaneous image-guided biopsy. A synthesis of rationale, technique and evidence-based medicine, it offers a clear approach to imaging, devices, procedures and patient care. Replete with case studies, radiological images, illustrative diagrams and tables, this valuable reference is an indispensable addition to the bookshelves of all radiologists in training as well as practicing radiologists who would like to expand their biopsy service and refine their skills. The easy to follow format, organization and graphic presentations create a high-yield approach to practical information such as indications, technical considerations, anatomical considerations, outcomes and complications. This timely compendium is a necessity in this rapidly progressing field.

The Radiology Handbook J. S. Benseler 2014-06-17 Designed for busy medical students, The Radiology Handbook is a quick and easy reference for any practitioner who needs information on ordering or interpreting images. The book is divided into three parts: - Part I presents a table, organized from head to toe, with recommended imaging tests for common clinical conditions. - Part II is organized in a question and answer format that covers the following topics: how each major imaging modality works to create an image; what the basic precepts of image interpretation in each body system are; and where to find information and resources for continued learning. - Part III is an imaging quiz beginning at the head and ending at the foot. Sixty images are provided to self-test knowledge about normal imaging anatomy and common imaging pathology. Published in collaboration with the Ohio University College of Osteopathic Medicine, The Radiology Handbook is a convenient pocket-sized resource designed for medical students and non radiologists.

Statistical Atlases and Computational Models of the Heart Oscar Camara 2010-09-03 computationalmodelswith experimentaldata. A completedatasetwasprovided in advance, containing the cardiac geometry and ?bre orientations from MRI as well as epicardial transmembrane potentials from optical mapping.

Aspirin and Related Drugs Kim D. Rainsford 2016-04-19 Reviewing over a century of aspirin research and use, Aspirin and Related Drugs provides a comprehensive source of information on the history, chemistry, absorption in the body, therapeutic effects, toxicology, elimination, and future uses of aspirin. Highlighting the historical evolution of the salicylates and the commercial development of aspirin, the book reviews the pharmacokinetics of the salicylates, ibuprofen, and paracetamol as a basis for understanding the biodisposition of these analgesic drugs. Leading specialists discuss the therapeutic role of aspirin in the prevention and treatment of thrombo-embolic diseases, its place along with non-acetylated salicylates in the treatment of rheumatic diseases and plain, and the potential applications for aspirin and related drugs as prophylactics for colon cancer, Alzheimer's disease, and vascular dementia. They also present comparisons with other drugs used to treat pain and inflammation. With extensive data and literature covering a broad field, this is the definitive reference on the actions and applications of aspirin, salicylates, and related drugs. Physicians, pharmacists, pharmacologists, toxicologists, and chemists will find this resource useful in their daily work. It will also be valuable to pharmaceutical companies and researchers in the development of newer agents and novel applications.

Bifurcation Stenting Ron Waksman 2012-03-22 Here is expert guidance on one of the most vexing clinical challenges faced by interventional cardiologists. Written by global thought leaders in the area and edited by two internationally-recognized pioneers in interventional cardiology, Bifurcation Stenting covers all techniques, imaging modalities, and devices in current use, including VH-IVUS and OCT. It includes practical tips/tricks from leading experts and a section of challenging cases to further illustrate the material and help readers better understand the treatment of bifurcation lesions.