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Interpretation of Emergency Head CT Springer Science & Business Media

Leveraging the organization and focus on exam preparation found in the comprehensive text, this Exam Review will help any student to successfully complete the ARRT General Radiography and Computed Tomography exams. The book includes a bulleted format review of content, Registry-style questions with answers and rationales, and a mock exam following the ARRT format. The companion website offers an online testing simulation engine.

Out of Operating Room Anesthesia Springer Science & Business Media

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.

Value-Addition in Food Products and Processing Through Enzyme Technology Springer Nature

This best-selling resource provides a general overview and basic information for all adult intensive care units. The material is presented in a brief and quick-access format which allows for topic and exam review. It provides enough detailed and specific information to address most all questions and problems that arise in the ICU. Emphasis on fundamental principles in the text should prove useful for patient care outside the ICU as well. New chapters in this edition include hyperthermia and hypothermia syndromes; infection control in the ICU; and severe airflow obstruction. Sections have been reorganized and consolidated when appropriate to reinforce concepts.

MDCT: A Practical Approach John Wiley & Sons

Edited and authored by international experts, *A Practical Manual of Thyroid and Parathyroid Disease* presents concise, evidence-based, multi-disciplinary guidance relevant for a global audience. Where appropriate, chapters include an evidence appraisal section which critically assesses the level of the evidence available for different treatment options. Reflecting the latest in clinical research and showcasing techniques pioneered by the contributors, the book includes chapters dedicated to advances in: cytology radiological assessment molecular biology and treatment rationale in thyroid cancer surgical technique including minimally invasive modalities Designed to be user-friendly, the book contains key points, case studies, color photographs and diagrams throughout. Multiple choice questions included at the end of each chapter enable self assessment. The book will be relevant to the medical undergraduate, postgraduate and clinical nurse specialist. Primary care physicians will find this an excellent resource for reference purposes and it will update specialists involved with treating thyroid and parathyroid disease in the fields of Pathology, Radiology, Oncology, Endocrinology and Surgery.

Reference Manual for Magnetic Resonance Safety, Implants, and Devices World Health Organization

A didactic, illustrated guide to the use of ultrasound as a diagnostic tool in clinical practice. Prepared by an international group of experts with wide experience in both developed and developing countries, the manual responds to the need for a basic reference text that can help doctors, sonographers, nurses, and midwives solve imaging problems when no experts are available. With this need in mind, the manual adopts a practical approach aimed at providing a thorough grounding in both the techniques of ultrasound and the interpretation of images. The need for extensive supervised training is repeatedly emphasized. Because the clinical value of ultrasound depends so greatly on the experience and skill of the operator, the manual makes a special effort to alert readers to common pitfalls and errors, and to indicate specific clinical situations where ultrasound may not be helpful or reliable as a diagnostic tool. Explanatory text is supported by numerous practical tips, warnings, checklists and over 600 illustrations. The opening chapters explain how ultrasound works, outline the factors to consider when choosing a scanner, and introduce the basic rules of scanning, including advice on how to recognize and interpret artefacts. Guidance on the selection of ultrasound equipment includes clear advice concerning where costs can be spared and where investment is essential. The core of the manual consists of seventeen chapters providing guidance on scanning techniques and the interpretation of images for specific organs and anatomical sites, with the most

extensive chapter devoted to obstetrics. Each chapter contains illustrated information on indications for scanning, preparation of the patient, including choice of transducer and setting of the correct gain, general scanning techniques, and specific techniques for identifying anatomical landmarks and recognizing abnormalities. The manual concludes with WHO specifications for a general purpose scanner judged entirely suitable for 90-95% of the most common ultrasound examinations.

Machine Learning With Radiation Oncology Big Data Elsevier Health Sciences

Every year, an estimated 1.7 million Americans sustain brain injury. Long-term disabilities impact nearly half of moderate brain injury survivors and nearly 50,000 of these cases result in death. *Brain Neurotrauma: Molecular, Neuropsychological, and Rehabilitation Aspects* provides a comprehensive and up-to-date account on the latest developments in the area of neurotrauma, including brain injury pathophysiology, biomarker research, experimental models of CNS injury, diagnostic methods, and neurotherapeutic interventions as well as neurorehabilitation strategies in the field of neurotrauma research. The book includes several sections on neurotrauma mechanisms, biomarker discovery, neurocognitive/neurobehavioral deficits, and neurorehabilitation and treatment approaches. It also contains a section devoted to models of mild CNS injury, including blast and sport-related injuries. Over the last decade, the field of neurotrauma has witnessed significant advances, especially at the molecular, cellular, and behavioral levels. This progress is largely due to the introduction of novel techniques, as well as the development of new animal models of central nervous system (CNS) injury. This book, with its diverse coherent content, gives you insight into the diverse and heterogeneous aspects of CNS pathology and/or rehabilitation needs.

Microbial Taxonomy, Phylogeny and Biodiversity John Wiley & Sons

Microbial Taxonomy, Phylogeny and Biodiversity Frontiers Media SA

Clinical Dilemmas in Viral Liver Disease CRC Press

Medical Imaging in Clinical Practice is a compendium of the various applications of imaging modalities in specific clinical conditions. It captures in an easy to read manner, the experiences of various experts drawn from across the globe. It explores the conventional techniques, advanced modalities and on going research efforts in the ever widening horizon of medical imaging. The various topics would be relevant to residents, radiologists and specialists who order and interpret various medical imaging procedures. It is an essential for the inquisitive mind, seeking to understand the scope of medical imaging in clinical practice.

Gastrointestinal Emergencies John Wiley & Sons

Interpretation of Emergency Head CT is an invaluable quick reference to the key aspects of the head CT. It provides the clinician with an easy-to-use 'ABCs' system to analyse any head CT scan that may be encountered in the acute setting. Section 1 contains both a comprehensive section on radiological anatomy of the brain showing cranial anatomy overlaid onto CT images and technical details of CT imaging in a simplified form. Section 2 covers the wide gamut of conditions that are likely to be encountered in acute medical practice. Pitfalls are highlighted and tips are included to assist the recognition of important signs, along with ways to distinguish other pathologies with a similar appearance. This is an excellent practical resource for all clinicians who utilise CT scans of the head as part of their patient management.

Barley Springer Nature

This book answers key questions asked by emergency clinicians faced with complex gastrointestinal and abdominal pain presentations. Instead of a traditional format that includes epidemiology, pathophysiology, diagnosis, and treatment options, this book takes an approach that mirrors the way clinicians interact with patients – by asking and answering specific clinical

care questions. The book is organized into sections by presentation – gastrointestinal bleeding, for example – each of which contains chapters on specific questions, such as “What is the best clinical risk score for low risk GIB patients?” Each clinical question comes with a detailed, evidence-based response and a summary that gives best practices, recommendations, and references. Additionally, at the end of each section is a chapter titled “Expert Corner,” which asks the same clinical questions to a surgical or gastrointestinal specialist and includes key pearls these experts have for emergency medicine practitioners. *Gastrointestinal Emergencies: Evidence-Based Answers to Key Clinical Questions* is an essential guide for emergency medicine physicians, residents, and medical students who want to review and improve their care of acute gastrointestinal emergencies.

Learning Genitourinary and Pelvic Imaging Springer

Barley: Chemistry and Technology, Second Edition is an important resource for any cereal chemist, food scientist, or crop scientist who needs to understand the development, structure, composition, and end-use properties of the barley grain for cultivation, trade, and utilization. Editors Peter R. Shewry and Steven E. Ullrich bring together a wide range of international authorities on barley to create this truly unique, encyclopedic reference work that covers the massive increase in barley knowledge over the past 20 years, since the first edition of this book was published. *Barley: Chemistry and Technology, Second Edition* offers the latest coverage of barley’s applications in milling, breeding, and production for food, feed, malting, brewing, distilling, and biofuels. It delivers a complete update of the latest knowledge of barley’s many components, from the genetic and molecular level to its many constituents, such as proteins, carbohydrates, arabinoxylans, minerals, lipids, terpenoids, phenolics, and vitamins. This important book also includes chapters on barley’s plant and grain development from both the physiological and genetic perspectives, making it an important resource not only for cereal and food scientists but also for crop scientists involved in breeding, agronomy, and related plant sciences. New coverage includes: Updated, comprehensive knowledge on barley’s components, including proteins, carbohydrates, arabinoxylans, and bioactive effects. New end-use ideas for barley as an ingredient in food products. Nonfood industrial applications for barley, including biofuels. A new chapter on barley’s health benefits. Molecular breeding for malting quality.

Diseases of the Chest, Breast, Heart and Vessels 2019-2022

International Atomic Energy Agency

The book details deep learning models like ANN, RNN, LSTM, in many industrial sectors such as transportation, healthcare, military, agriculture, with valid and effective results, which will help researchers find solutions to their deep learning research problems. We have entered the era of smart world devices, where robots or machines are being used in most applications to solve real-world problems. These smart machines/devices reduce the burden on doctors, which in turn make their lives easier and the lives of their patients better, thereby increasing patient longevity, which is the ultimate goal of computer vision. Therefore, the goal in writing this book is to attempt to provide complete information on reliable deep learning models required for e-healthcare applications. Ways in which deep learning can enhance healthcare images or text data for making useful decisions are discussed. Also presented are reliable deep learning models, such as neural networks, convolutional neural networks, backpropagation, and recurrent neural networks, which are increasingly being used in medical image processing, including for colorization of black and white X-ray images, automatic machine translation images, object classification in photographs/images (CT scans), character or useful generation (ECG), image caption generation, etc. Hence, reliable deep learning methods for the perception or production of better results are a necessity for highly effective e-healthcare applications. Currently, the most difficult data-related problem that needs to be solved concerns the rapid increase of data occurring each day via billions of smart devices. To address the growing amount of data in healthcare applications, challenges such as not having standard tools, efficient algorithms, and a sufficient number of skilled data scientists need to be overcome. Hence, there is growing interest in investigating deep learning models and their use in e-healthcare applications. Audience Researchers in artificial intelligence, big data, computer science, and electronic engineering, as well as industry engineers in transportation, healthcare,

biomedicine, military, agriculture.

Computed Tomography for Technologists Cambridge University Press

This book describes current examination techniques and advanced clinical applications of state-of-the-art multidetector computed tomography (MDCT) scanners. There are contributions from several distinguished radiologists and clinicians. Each chapter is written from a practical perspective, so that radiologists, residents, medical physicists, and radiology technologists can obtain relevant information about MDCT applications.

Endocrine Surgery Springer

Endoleaks and Endotension is an authoritative resource for vascular surgeons, interventional radiologists and cardiologists, vascular disease specialists, primary care physicians and internists, and students interested in endovascular aneurysm repair. It contains valuable guidelines from a widely respected team of international authorities on the subject.

Radiodiagnosis, Nuclear Medicine, Radiotherapy and Radiation Oncology Springer Science & Business Media

This open access book focuses on diagnostic and interventional imaging of the chest, breast, heart, and vessels. It consists of a remarkable collection of contributions authored by internationally respected experts, featuring the most recent diagnostic developments and technological advances with a highly didactical approach. The chapters are disease-oriented and cover all the relevant imaging modalities, including standard radiography, CT, nuclear medicine with PET, ultrasound and magnetic resonance imaging, as well as imaging-guided interventions. As such, it presents a comprehensive review of current knowledge on imaging of the heart and chest, as well as thoracic interventions and a selection of "hot topics". The book is intended for radiologists, however, it is also of interest to clinicians in oncology, cardiology, and pulmonology.

Endoleaks and Endotension Elsevier

This open access book offers an essential overview of brain, head and neck, and spine imaging. Over the last few years, there have been considerable advances in this area, driven by both clinical and technological developments. Written by leading international experts and teachers, the chapters are disease-oriented and cover all relevant imaging modalities, with a focus on magnetic resonance imaging and computed tomography. The book also includes a synopsis of pediatric imaging. IDKD books are rewritten (not merely updated) every four years, which means they offer a comprehensive review of the state-of-the-art in imaging. The book is clearly structured and features learning objectives, abstracts, subheadings, tables and take-home points, supported by design elements to help readers navigate the text. It will particularly appeal to general radiologists, radiology residents, and interventional radiologists who want to update their diagnostic expertise, as well as clinicians from other specialties who are interested in imaging for their patient care.

Computed Tomography of the Abdomen Springer Science & Business Media

This book discusses the commercialization of biofuels and the Brazilian government policies for the promotion of renewable energy program in Brazil, which could be a learning module for several countries for implementing biofuels policy to improve their socioeconomic status and make them energy independent. Researchers in academia and industries, policy makers, and economic analysts will be assisted by important source of information in their ongoing research and future perspectives. This book will benefit graduate and postgraduate students of chemical and biochemical engineering, forestry, microbiology, biochemistry, biotechnology, applied

chemistry, environmental science, sustainable energy, and biotech business disciplines by signifying the applied aspects of bioenergy production from various natural sources and their implications.

Graduate and postgraduate students as well as postdoctoral researchers will find clear concepts of feedstock analysis, feedstock degradation, microbial fermentation, genetic engineering, renewable energy generation and storage, climate changes, and techno-economic analysis of biofuels production technologies.

Medical Imaging Contrast Agents: A Clinical Manual JP Medical Ltd

Value Addition in Food Products and Processing using Enzyme Technology offers an updated review regarding the potential impact of new enzymes and enzyme technology on the food sector. The book brings together novel sources and technologies regarding enzymes in value added food development, food production, food processing, food preservation, food engineering and food biotechnology. It will be extremely useful for different types of readers, including food scientists, academic and food biotechnologists, but will also be ideal for students studying food-related courses. This book includes concise and up-to-date research information from multiple independent scientific papers from around the world. This is a essential, multidisciplinary text for research and development professionals, research scientists, and academics in food, biotechnology, and agriculture industries. It addresses safety issues and includes the sources, screening, immobilization and application of food-grade enzymes in food. Presents research data from experts Includes emerging industry topics such as baby food and food safety Offers methodologies of enzymes in diagnostics for food testing and analysis Emphasizes enzyme technology through a microbial biotechnological lens Includes bakery and confectionery products, meat and poultry products, vegetables, food ingredients, functional foods, flavors and food additives and seafood

Diagnostic and Therapeutic Neuroradiology Frontiers Media SA

This book is a comprehensive guide to the field of radiology and radiotherapy for medical trainees. Divided into four sections, it offers in depth detail on radiodiagnosis, nuclear medicine, radiotherapy and radiation oncology, with an emphasis on the multi-modality approach to diagnosis. The final section discusses newer advances and interventional radiology. The first section on radiodiagnosis begins with a general overview of radiology, procedures and hazards. The following chapters describe the use of radiology for imaging different sections of the body including pulmonary radiology, musculoskeletal radiology, endocrine imaging and breast imaging. The following sections discuss nuclear medicine and scans, and radiation oncology and radiotherapy, for specific disease sites. Key points
Comprehensive guide to radiology and radiotherapy for trainees
Covers radiodiagnosis, nuclear medicine, radiotherapy and radiation oncology, and interventional radiology
Describes use of radiology for diagnosis and treatment of different disease sites
Discusses nuclear medicine and scans in detection and treatment of malignant and benign tumours

Medical Imaging in Clinical Practice Springer

In its 114th year, Billboard remains the world's premier weekly music publication and a diverse digital, events, brand, content and data licensing platform. Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music, video, gaming, media, digital and mobile entertainment issues and trends.