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Issues for 1977-1979 include also Special List journals being indexed in cooperation with other institutions. Citations from these journals appear in other MEDLARS bibliographies and in MEDLING, but not in Index medicus. "This book offers information regarding the basic skills that a radiology nurse uses in everyday practice. Nurses draw from prior critical care, post-anesthesia and/or emergency nursing knowledge and assessment skills in radiology and also learn new skills specific to the imaging environment including vascular access, hemostasis, infection control, physiological monitoring, and documentation"-- Now fully updated, the second edition of Modern Diagnostic X-Ray Sources: Technology, Manufacturing, Reliability gives an up-to-date summary of X-ray source technology and design for applications in modern diagnostic medical imaging. It lays a sound groundwork for education and advanced training in the physics of X-ray production, X-ray interactions with matter, and imaging modalities and assesses their prospects. The book begins with a comprehensive and easy-to-read historical overview of X-ray tube and generator

development, including key achievements leading up to the current technological and economic state of the field. The book covers the physics of X-ray generation, including the process of constructing X-ray source devices. The stand-alone chapters can be read in order or in selections. They take you inside diagnostic X-ray tubes, illustrating their design, functions, metrics for validation, and interfaces. The detailed descriptions enable objective comparison and benchmarking. This detailed presentation of X-ray tube creation and functions enables you to understand how to optimize tube efficiency, particularly with consideration for economics and environmental care. It also simplifies faultfinding. Along with covering the past and current state of the field, the book assesses the future regarding developing new X-ray sources that can enhance performance and yield greater benefits to the scientific community and to the public. After heading international R&D, marketing and advanced development for X-ray sources with Philips, and working in the X-ray industry for more than four decades, Rolf Behling retired in 2020 and is now the owner of the consulting firm XtrainingX, Germany. He holds numerous patents and is continuously publishing, consulting and training. Although many radiation protection scientists and engineers use dose coefficients, few know the origin of those dose coefficients. This is the first book in over 40 years to address the topic of radiation protection dosimetry in intimate detail. Advanced Radiation Protection Dosimetry covers all methods used in radiation protection dosimetry, including advanced external and internal radiation dosimetry concepts and regulatory applications. This book is an ideal reference for both scientists and practitioners in radiation protection and students in graduate health physics and medical physics courses. Features: A much-needed book filling a gap in the market in a rapidly expanding area Contains the history, evolution, and the most up-to-date computational dosimetry models Authored and edited by internationally recognized authorities and subject area specialists Interrogates both the origins and methodologies of dose coefficient calculation Incorporates the latest international guidance for radiation dosimetry and protection Significant development made in the Siemens CT scanner SOMATOM PLUS have opened new possibilities for diagnostic imaging in computed tomography. Spiral CT with a continously rotating X-ray tube and synchronous table increments for up to 60 cm in less than half a minute make radiological diagnosis more accurate. Blind gaps are no longer a major problem, and all structures, especially in the lungs, can be identified and diagnosed. The practical experience of an expert groupof clinical researchers and physicists is now made available in this book. Senior scientists from neighboring and other NATO countries joined their efforts to help this region to get to know their problems, discussed their solutions and how they can be helped out. Distinguished experts described how they had succeeded in developing

the solutions to such problem in their countries. Lung cancer is the most common cause of cancer-related death in the world. Recently, better understanding of the biology of lung cancer has led to the development of newer targeted therapies for specific subpopulations of lung cancer patients. While this has led to multiple exciting advances that promise to improve outcomes in the future, there has also been a significant increase in the complexity of care of the lung cancer patient. Part of the Oxford American Oncology Library, this concise handbook identifies best-practice guidelines, as well as differences of opinion in the field. It presents the most current procedures for the diagnosis and management of lung cancer in a succinct and easy-to-read manner. Chapters focus on topics such as the biology, pathology, and staging of lung cancer, special populations, and supportive care. Lung Cancer is a must-have tool for busy oncologists. Considering the numerous works dealing with the angiography of the human brain, the book presented by SZIKLA et al. might seem to some to be devoted to superfluous precision, especially as it is inspired by "stereotactic" thinking. The large arterial trunks and their branches were described by anatomists for a long time, then were restudied by neuroradiologists for recognition in a more and more detailed manner on arteriograms. However, until now no encompassing work has been done to specify precisely the relationship of the blood vessels to that large and important organ, the human brain cortex, thereby permitting the recognition of the sulci and gyri as a function of the successive curves imposed on the various vessels by the deep infoldings of the cortex. Insofar as the radiologic evaluation of the cerebral cortex is concerned, fractional pneumoencephalography allows the injection of a number of sulci and fissures via the subarachnoid spaces. It should be pointed out, however, that sufficiently complete and interpretable images are obtained only under favorable circumstances (successful technique, cerebral atrophy, absence of cerebral edema, absence of arachnoid symphysis, etc.). In addition a large number of sulci cannot be made visible by pneumography for strictly anatomic reasons such as the level of their opening into cisternal spaces. Catalog Copy Prominent physicians review past, current, and future applications of the many powerful imaging techniques now used in the diagnosis, staging, treatment, and outcomes assessment of cancers of the prostate, central nervous system (CNS), and breast. Topics range from the use of screening mammography and approaches to breast cancer detection using MRI to improved visualization of the prostate gland from transrectal ultrasound and MRI, to MRI-guided resection of neoplasms. A keyword listing of serial titles currently received by the National Library of Medicine. This book provides essential information on methodologies for recording electrocardiograms in various animal species, including dogs, cats, cattle, buffaloes, sheep, goats, mithun, chelonians, snakes, avians, equines, rabbits,

and the Indian gray mongoose. It also reviews the electrocardiographic physiology, generation of electrocardiograms, and normal criteria for various animal species; electrocardiograms in health and disease; and the interpretation of abnormal electrocardiograms, cardiomyopathy and arrhythmias, with corresponding treatment protocols.Further, it presents several approaches to interpreting the electrocardiograms of dogs, cats, ruminants, tortoises, pigeons, and other animals, offering a valuable resource for all veterinary students, scientists, and physicians wanting to make greater use of this valuable non-invasive tool in the diagnosis of heart diseases and general health examinations. This book surveys recent advances in theranostics based on magnetic nanoparticles, ultrasound contrast agents, silica nanoparticles and polymeric micelles. It presents magnetic nanoparticles, which offer a robust tool for contrast enhanced MRI imaging, magnetic targeting, controlled drug delivery, molecular imaging guided gene therapy, magnetic hyperthermia, and controlling cell fate. Multifunctional ultrasound contrast agents have great potential in ultrasound molecular imaging, multimodal imaging, drug/gene delivery, and integrated diagnostics and therapeutics. Due to their diversity and multifunctionality, polymeric micelles and silica-based nanocomposites are highly capable of enhancing the efficacy of multimodal imaging and synergistic cancer therapy. This comprehensive book summarizes the main advances in multifunctional nanoprobes for targeted imaging and therapy of gastric cancer, and explores the clinical translational prospects and challenges. Although more research is needed to overcome the substantial obstacles that impede the development and availability of nanotheranostic products, such nontrivial nanoagents are expected to revolutionize medical treatments and help to realize the potential of personalized medicine to diagnose, treat, and follow-up patients with cancer. Zhifei Dai is a Professor at the Department of Biomedical Engineering, College of Engineering, Peking University, China. Issues in Diagnostics and Imaging / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Diagnostics and Imaging. The editors have built Issues in Diagnostics and Imaging: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Diagnostics and Imaging in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Diagnostics and Imaging: 2011 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at

http://www.ScholarlyEditions.com/. The comparison of MR images and cadaver microangiograms of the basal perforating arteries is crucial for understanding the courses and supply areas of these vessels and in turn, for diagnosing pathologies in this region. Divided into three sections- normal anatomy of brain vessels; neurovascular imaging in pathology; and anatomy and imaging of spinal vessels- Neurovascular Imaging contains a rich collection of images to teach the reader how to interpret MR images of the brain vessels and spinal vessels, and how to identify pathological signs. Written and edited by a group of highly acclaimed experts in the field, Neurovascular Imaging is an authoritative account of the interpretation of MR images of the brain vessels and spinal vessels, and is a valuable addition to the library of the diagnostic radiologist. 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. This book presents new information on radiobiology that more clearly refutes the linear no-threshold (LNT) assumption and supports radiation hormesis. Fresh light is cast on the mechanisms of radiation hormesis and the potential benefits of low-dose ionizing radiation in preventing and treating a wide variety of inflammatory and proliferative diseases. It is proposed that these effects may derive from cellular communication via electromagnetic waves directed by DNA, with each cell acting as a quantum computer. Readers will also find close analysis of the negative impacts of radiophobia on many aspects of modern life, including attitudes to imaging technologies, licensing of nuclear power reactors, and preparedness for survival of nuclear war. The book will be of interest to researchers and scientists in radiobiology, radiation protection, health physics, medical physics, and radiology. Specifically, it will provide medical physicians, radiation oncologists, radiation epidemiologists, gerontologists, cell

biologists, toxicologists, and nuclear engineers with a wide range of interesting facts and enlightening novel perspectives. A practical manual covering the full spectrum of PET and PET/CT imaging, now in common clinical practice, this book includes images of normal variants, artifacts, and pathologic conditions. Indications for and the relative clinical value of PET in the armamentarium of diagnostic medical imaging are reviewed. The information in the book is organized to be brief, concise, easy-to-understand and readily accessed. This book is intended for all health practitioners who need a concise reference and review of PET imaging indications, protocols and clinical applications. It will be useful to radiologists, nuclear medicine physicians, and clinicians who refer their patients to PET Centers for diagnostic imaging, including neurologists, neurosurgeons, psychiatrists, cardiologists, internists, and oncologists. Radiologic and nuclear medicine technologists, and physicians in training will also benefit from this work. First multi-year cumulation covers six years: 1965-70.

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