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Medical Instrumentation - Webster 1997-08-18

Computer-Aided Detection and Diagnosis in Medical Imaging - Qiang Li 2015-03-17
Improve the Accurate Detection and Diagnosis of Cancer and Other Diseases Despite the expansion of the CAD field in recent decades, there is currently no single book dedicated to the development and use of CAD systems. Filling this need, Computer-Aided Detection and Diagnosis in Medical Imaging covers the major technical advances and methodologies shaping the development and clinical utility of CAD systems in breast imaging, chest imaging, abdominal imaging, and other emerging applications. After a historical overview of CAD, the book is divided into four sections. The first section presents CAD technologies in breast imaging, which is the most advanced area of CAD application. The second section discusses CAD technologies in chest and abdominal imaging. The third section explores emerging CAD technologies in a wide range of imaging modalities designed to address a variety of diseases. The final section describes the current use of CAD systems in clinical practice as well as how CAD will play an important role in quantitative image biomarkers and imaging genomics research. This book brings together existing and emerging CAD approaches at a level understandable to students, CAD system developers, basic scientists, and physician scientists. Newcomers to CAD research will learn about fundamental aspects in the process of CAD system development. Developers of CAD systems will gain insight on designing new or improved CAD systems. Experienced researchers will get up-to-date information on the latest CAD technologies.

Multi-Modality Atherosclerosis Imaging and Diagnosis - Luca Saba 2013-09-13
Stroke is one of the leading causes of death in the world, resulting mostly from the sudden ruptures of atherosclerosis carotid plaques. Understanding why and how plaque develops and ruptures requires a multi-disciplinary approach such as radiology, biomedical engineering, medical physics, software engineering, hardware engineering, pathological and histological imaging. Multi-Modality Atherosclerosis Imaging, Diagnosis and Treatment presents a new dimension of understanding Atherosclerosis in 2D and 3D. This book presents work on plaque stress analysis in order to provide a general framework of computational modeling with atherosclerosis plaques. New algorithms based on 3D and 4D Ultrasound are presented to assess the atherosclerotic disease as well as very recent advances in plaque multimodality image fusion analysis. The goal of Multi-Modality Atherosclerosis Imaging, Diagnosis and Treatment is to fuse information obtained from different 3D medical image modalities, such as 3D US, CT and MRI, providing the medical doctor with some sort of augmented reality information about the atherosclerotic plaque in order to improve the accuracy of the diagnosis. Analysis of the plaque dynamics along the cardiac cycle is also a valuable indicator for plaque instability assessment and therefore for risk stratification. 4D Ultrasound, a sequence of 3D reconstructions of the region of interest along the time, can be used for this dynamic analysis. Multimodality Image Fusion is a very appealing approach because it puts together the best characteristics of each modality, such as, the high temporal resolution of US and the high spatial resolutions of MRI and CT.

Islamic Wealth and the SDGs - Mohd Ma'Sum Billah 2021-04-21
The SDGs, developed by the UN in 2012, focuses on 17 goals for the betterment of humanity and humanitarian causes. Among the core objectives of Shari'ah in Islamic finance is to offer a helping hand, emphasizing the efforts and scope of the SDGs. This book explores how Islamic ethical wealth is structured to contribute to the SDGs and an overall socio-economic impact within the principles of Maqasid al-Shari'ah. Focusing areas such as Islamic micro-finance, wealth inclusion, corporate and agro-Zakat, Awqaf, SRI Sukuk, and green Sukuk, this book will feature contributions from the leading researchers in sustainability and Islamic finance and will be of interest to scholars, researchers, industrialists, NGOs, UNDP and students studying both areas.

MCQ Companion to Applied Radiological Anatomy - Arockia Doss 2003-01-30
A revision aid for radiology trainees world-wide studying for their professional examinations in the field.

Practical Hardware Pentesting - Jean-Georges Valle 2021-04-01
Explore embedded systems pentesting by applying the most common attack techniques and patterns Key Features Learn various pentesting tools and techniques to attack and secure your hardware infrastructure Find the glitches in your hardware that can be a possible entry point for attacks Discover best practices for securely designing products Book Description Hardware pentesting involves leveraging hardware interfaces and communication channels to find vulnerabilities in a device. Practical Hardware Pentesting will help you to plan attacks, hack your embedded devices, and secure the hardware infrastructure. Throughout the book, you will see how a specific device works, explore the functional and security aspects, and learn how a system senses and communicates with the outside world. You will start by setting up your lab from scratch and then gradually work with an advanced hardware lab. The book will help you get to grips with the global architecture of an embedded system and sniff on-board traffic. You will also learn how to identify and formalize threats to the embedded system and understand its relationship with its ecosystem. Later, you will discover how to analyze your hardware and locate its possible system vulnerabilities before going on to explore firmware dumping, analysis, and exploitation. Finally, focusing on the reverse engineering process from an attacker point of view will allow you to understand how devices are attacked, how they are compromised, and how you can harden a device against the most common hardware attack vectors. By the end of this book, you will be well-versed with security best practices and understand how they can be implemented to secure your hardware. What you will learn Perform an embedded system test and identify security critical functionalities Locate critical security components and buses and learn how to attack them Discover how to dump and modify stored information Understand and exploit the relationship between the firmware and hardware Identify and attack the security functions supported by the functional blocks of the device Develop an attack lab to support advanced device analysis and attacks Who this book is for This book is for security professionals and researchers who want to get started with hardware security assessment but don't know where to start. Electrical engineers who want to understand how their devices can be attacked and how to protect against these attacks will also find this book useful.

Automated breast cancer detection and classification using ultrasound images: A survey - H.D.Cheng
Breast cancer is the second leading cause of death for women all over the world. Since the cause of the disease remains unknown, early detection and diagnosis is the key for breast cancer control, and it can increase the success of treatment, save lives and reduce cost. Ultrasound imaging is one of the most frequently used diagnosis tools to detect and classify abnormalities of the breast.

Peripheral Endovascular Interventions - Thomas J. Fogarty 2010-06-25
This book offers a comprehensive review of the rapidly advancing field of endovascular therapy, written by internationally recognized authorities in the field, many of whom are the innovators of the techniques and devices involved. Broad in scope, topics covered range from how to obtain training in approved endovascular techniques to promising new lines of investigational therapies.

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.

Materials Processing Fundamentals - Lifeng Zhang 2016-12-01
This collection provides researchers and industry professionals with complete guidance on the synthesis, analysis, design, monitoring, and control of metals, materials, and metallurgical processes and phenomena. Along with the fundamentals, it covers modeling of diverse phenomena in processes involving iron, steel, non-ferrous metals, and composites. It also goes on to examine second phase particles in metals, novel sensors for hostile-environment materials processes, online sampling and analysis techniques, and models for real-time process control and quality monitoring systems.

Acoustical Imaging - Iwaki Akiyama 2010-11-03
The 29th International Symposium on Acoustical Imaging was held in Shonan Village, Kanagawa, Japan, April 15-18, 2007. This interdisciplinary Symposium has been taking place every two years since 1968 and forms a unique forum for advanced research, covering new technologies, developments, methods and theories in all areas of acoustics. In the course of the years the volumes in the Acoustical Imaging Series have developed and become well-known and appreciated reference works. Offering both a broad perspective on the state-of-the-art in the field as well as an in-depth look at its leading edge research, this Volume 29 in the Series contains again an excellent collection of seventy papers presented in nine major categories: (1) Strain Imaging, (2) Biological and Medical Applications, (3) Acoustic Microscopy, (4) Non-Destructive Evaluation and Industrial Applications, (5) Components and Systems, (6) Geophysics and Underwater Imaging, (7) Physics and Mathematics, (8) Medical Image Analysis, (9) FDTD method and Other Numerical Simulations.

Transcranial Sonography in Movement Disorders - 2010-09-24
Transcranial Sonography in Movement Disorders

The Mechanics of the Circulation - C. G. Caro 2012
This classic book outlines the anatomy and physiology of the circulation and explains the mechanical principles that govern it.

Retrograde Ureteroscopy - Petrisor Aurelian Geavlete 2016-04-07
Retrograde Ureteroscopy: Handbook of Endourology contains five focused, review-oriented volumes that are ideal for students and clinicians looking for a comprehensive review rather than a whole course. Each volume is easily accessible through eBook format. Topics covered review both the endourological diagnosis and treatment of prostate, urethral, urinary bladder, upper urinary tract, and renal pathology, with all chapters describing the most recent techniques, reviewing the latest results, and analyzing the most modern technologies. In the past ten years, the field of endourology has expanded beyond the urinary tract to include all urologic, minimally-invasive surgical procedures. Recent advancements in robotic and laparoscopic bladder surgery make this one of the fastest moving fields in medicine. As current textbooks are too time-consuming for busy urologists or trainees who also need to learn other areas of urology, this collection provides a quick references with over 4000 images that are appropriate for fellows and those teaching in the field. Offers review content for urologists in training and "refresher" content for experts in endourology Explores new surgical techniques and technology through review-level content and extensive images of pathologies Includes over 500 images per volume that were taken from more than 4000 endourologic procedures performed annually at the editor's hospital

Medical Devices - World Health Organization 2010
Background papers 1 to 9 published as technical documents. Available in separate records from WHO/HSS/EHT/DIM/10.1 to WHO/HSS/EHT/DIM/10.9

Critical Care Nephrology and Renal Replacement Therapy in Children - Akash Deep 2018-08-17
This book represents an invaluable resource for professionals for the diagnosis and treatment of acute kidney injury (AKI) in children and how to select and deliver the appropriate form of renal replacement therapy (RRT). Experts from all over the globe have come together to share their wide experience in the field of Critical Care Nephrology in children. Paediatric critical care nephrology is a complex and highly specialised field, presenting challenges and management strategies that are often quite distinct from those seen in adult practice. Therefore, it is high time to address all the topics in the field of critical care nephrology in children in a unique book which is the first of its kind. This book covers the basics as well as advances in the field of Critical Care Nephrology. Each chapter is dedicated to practical aspects of a particular topic elucidating various management decision points. Each chapter is also accompanied with algorithms, figures and protocols in tabulated format. Information on how to manage specific conditions are contextualized with relevant background anatomy, physiology and biochemistry and practical examples. At the end of the chapter, there are key learning points. Paediatricians, nephrologists and paediatric intensivists, as well as paediatric critical care and nephrology nurses in all countries will find this book an invaluable reference text.

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.

TTL Cookbook - Don Lancaster 1974
This best selling book has become the standard reference to TTL devices. It tells what they are, how they work, and how to use them. TTL Cookbook is filled with typical circuits and practical applications to aid the user who wants to learn about and use TTL. Book jacket.

Three-dimensional Ultrasound - 1999
This volume provides an understanding of the technology and clinical uses of three-dimensional ultrasound. The aim of the text is to assist radiologists in asking the right questions in choosing the ultrasound equipment to buy for their hospitals. The authors explain volume imaging and volume sonography technology and current information on acquisition and display methods, visualization, and quantitative analysis. The advantages of different types of acquisition and display are discussed to assist radiologists in comparing different types of equipment.

A Practical Guide to Transcranial Doppler Examinations - Mira L. Katz 2003-01-01
An indispensable resource for anyone performing transcranial Doppler, TCD, and transcranial color Doppler imaging examinations, TCDI, whether novice or advanced level. Step by step instruction for performing transcranial Doppler and transcranial color Doppler examinations. Guidelines for accurate transcranial Doppler interpretation. Tips for difficult TCD exams. A comprehensive post-test examination. 158 pages with color graphics. Techniques in evaluating cerebral blood flow, vasospasm and intracranial stenosis. This manual will be a benefit to both technologist/sonographers and physicians.

Textbook of Family Medicine - Robert E. Rakel 2011
Offers guidance on the principles of family medicine, primary care in the

community, and various aspects of clinical practice. Suitable for both residents and practicing physicians, this title includes evidence-based, practical information to optimize your patient care and prepare you for the ABFM exam.

Artificial Intelligence Applications and Innovations - Harris Papadopoulos 2010-09-21
The abundance of information and increase in computing power currently enable researchers to tackle highly complicated and challenging computational problems. Solutions to such problems are now feasible using advances and innovations from the area of Artificial Intelligence. The general focus of the AIAI conference is to provide insights on how Artificial Intelligence may be applied in real-world situations and serve the study, analysis and modeling of theoretical and practical issues. This volume contains papers selected for presentation at the 6th IFIP Conference on Artificial Intelligence Applications and Innovations (AIAI 2010) and held in Larnaca, Cyprus, during October 6–7, 2010. IFIP AIAI 2010 was co-organized by the University of Cyprus and the Cyprus University of Technology and was sponsored by the Cyprus University of Technology, Frederick University and the Cyprus Tourism Organization. AIAI 2010 is the official conference of the WG12.5 "Artificial Intel- gence Applications" working group of IFIP TC12, the International Federation for Information Processing Technical Committee on Artificial Intelligence (AI). AIAI is a conference that grows in significance every year attracting researchers from different countries around the globe. It maintains high quality, standards and welcomes research papers describing technical advances and engineering and ind- trial applications of intelligent systems. AIAI 2010 was not confined to introducing how AI may be applied in real-life situations, but also included innovative methods, techniques, tools and ideas of AI expressed at the algorithmic or systemic level.

Physicians' Cancer Chemotherapy Drug Manual 2021 - Edward Chu 2020-12-11
Written by world-class experts in clinical cancer therapeutics, Physicians' Cancer Chemotherapy Drug Manual 2021 provides a complete, easy-to-use catalog of over 100 drugs and commonly used drug regimens—both on- and off-label—for the treatment of all the major cancers.

Emerging Research in Data Engineering Systems and Computer Communications - P. Venkata Krishna 2020-02-10
This book gathers selected papers presented at the 2nd International Conference on Computing, Communications and Data Engineering, held at Sri Padmavati Mahila Visvavidyalayam, Tirupati, India from 1 to 2 Feb 2019. Chiefly discussing major issues and challenges in data engineering systems and computer communications, the topics covered include wireless systems and IoT, machine learning, optimization, control, statistics, and social computing.

Principles of Clinical Medicine for Space Flight - Michael R. Barratt 2020-01-02
In its first edition, Principles of Clinical Medicine for Space Flight established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers. It received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine Certifying Examination under the American Board of Preventive Medicine. In the intervening few years, the continuous manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space. The Second Edition incorporates this information. Gaps in the first edition will be addressed with the addition new and revised chapters. This edition is extensively peer reviewed and represents the most up to date knowledge.

Cardiovascular Biomechanics - Peter R. Hoskins 2017-02-16
This book provides a balanced presentation of the fundamental principles of cardiovascular biomechanics research, as well as its valuable clinical applications. Pursuing an integrated approach at the interface of the life sciences, physics and engineering, it also includes extensive images to explain the concepts discussed. With a focus on explaining the underlying principles, this book examines the physiology and mechanics of circulation, mechanobiology and the biomechanics of different components of the cardiovascular system, in-vivo techniques, in-vitro techniques, and the medical applications of this research. Written for undergraduate and postgraduate students and including sample problems at the end of each chapter, this interdisciplinary text provides an essential introduction to the topic. It is also an ideal reference text for researchers and clinical practitioners, and will benefit a wide range of

students and researchers including engineers, physicists, biologists and clinicians who are interested in the area of cardiovascular biomechanics.

Manual of Home Health Nursing Procedures - Robyn Rice 2000
CD-ROM contains full text for all the procedures available in the manual. Files are provided both as fully formatted Word 6.0 (.doc) documents and as text-only documents (.txt).

Manual of Neurosonology - László Csiba 2016-04-28
Neurosonology is non-invasive, portable, and has excellent temporal resolution, making it a valuable and increasingly popular tool for the diagnosis and monitoring of neurological conditions when compared to other imaging techniques. This guide looks beyond the use of neurovascular ultrasound in stroke to encompass a wide range of other neurological diseases and emergencies. It offers a practical approach to the examination of patients, interpretation of ultrasound studies, and the application of neurosonology to the development of management and treatment strategies. Each chapter incorporates a thorough and clear procedural methodology alongside scanning tips for trainees; this step-by-step approach is further enhanced by example images and focused diagnostic questions. Authored and edited by international experts, this practical manual of neurosonology is an invaluable resource for neurologists, neurosurgeons, intensivists, radiologists, and ultrasonographers.

Ultrasound and Carotid Bifurcation Atherosclerosis - Andrew Nicolaides 2011-11-25
Ultrasound and Carotid Bifurcation Atherosclerosis provides a comprehensive overview of the most recent advancements in instrumentation, imaging techniques including the use of contrast enhancement agents, plaque image analysis and its automation, elastography and plaque motion analysis; also, the use of ultrasonic and other biomarkers in the detection of the high risk cardiovascular individual. Finally, it deals with the application of IVUS, TCD and carotid plaque characterization in clinical practice and in stroke risk stratification. Ultrasound and Carotid Bifurcation Atherosclerosis is intended for all those working in the field of atherosclerosis, ultrasound imaging and cardiovascular risk, including the clinician, the vascular ultrasonographer, the epidemiologist, the molecular biologist, the biomedical engineer and the informatics scientist. Furthermore, this book bridges the gap between the researcher and the clinician, who is keen to incorporate the latest results of research to his daily practice.

Research and Development in Breast Ultrasound - E. Ueno 2006-03-20
This book was planned in order to announce the contents discussed in the 13th International Congress on the Ultrasound Examination of the Breast. Breast ultrasound has become a indispensable method for the diagnosis of cancer of the breast. Breast ultrasound will become more convenient and precise diagnostic method according to the development of the device. In addition, application to breast screening or medical check has started, on the other hand the interventional method has also developed.

CMOS Cookbook - DON LANCASTER 1997-02-13
The CMOS Cookbook contains all you need to know to understand and successfully use CMOS (Complementary Metal-Oxide Semiconductor) integrated circuits. Written in a "cookbook" format that requires little math, this practical, user-oriented book covers all the basics for working with digital logic and many of its end appilations. Whether you're a newcomver to logic and electronics or a senior design engineer, you'll find CMOS Cookbook and its examples helpful as a self-learning guide, a reference handbook, a project-idea book, or a text for teaching others digital logic at the high school through university levels. In the pages of this revised edition, you'll discover: *What CMOS is, who makes it, and how the basic transistors, inverters, and logic and transmission gates work *CMOS usage rules, power-suppy examples, and information on breadboards, state testing, tools, and interfacing *Discussions of the latest CMOS devices and sub-families, including the 74C, 74HC, and 74HCT series that streamline TTL and CMOS interfacing *An in-depth look at multivibrators - including astable, monostable, and bistable - and linear techniques *Clocked-logic designs and the extensive applications of JK and D-type flip-flops *A helpful appendix featuring a TTL-to-CMOS conversion chart

Duplex Scanning in Vascular Disorders - Donald Eugene Strandness 1993
Written by an internationally recognized pioneer in duplex scanning, this book shows readers how to use this technique in evaluating patients with arterial and venous disease. This new Third Edition is broader in scope and more clinical in focus, with specific guidelines on the indications for testing and practical advice on how to perform the examination and interpret the results. New images--including more than 100 full-color

Doppler scans--give the book a fresh, state-of-the-art look. Ten experts from the University of Washington have been invited to contribute to this edition, adding their clinical experience and insights. A Brandon-Hill recommended title.

Management Innovators - Daniel A. Wren 1998-04-16
Here is a who's who of business, thirty-one profiles of inventors, financiers, organizers, motivators, and gurus--a vivid, informative look at the history of management as seen through the lives of its most influential figures. We meet Eli Whitney, creator of the cotton gin and father of the machine tool industry, who failed to profit from his genius; Thomas Edison, who once vowed he would never invent anything he couldn't sell; and Andrew Carnegie, who applied the railroad management system to the steel industry, with spectacular results. There are profiles of such railroad giants as James J. Hill and Edward H. Harriman, and colorful portraits of Samuel Morse and Graham Bell, the two men who launched the communications industry in the U.S. The great innovators of management and organization are here as well, including the founders of systematic management, Frederick W. Taylor and Frank and Lillian Gilbreth. There's an intriguing side-by-side look at William C. Durant, builder of General Motors, a visionary but a weak manager and organizer, and Alfred P. Sloan, who gave GM the structure it needed, and provided the model for all large, multiproduct firms to come. And there are thought-provoking profiles of motivational experts Elton Mayo and Abraham Maslow; quality advocates W. Edwards Deming and Joseph Moses Juran; Taiichi Ohno, inventor of just-in-time manufacturing; and finally, Peter Drucker, the most influential management thinker of our time. This is the distilled essence of management genius, a stimulating and, at times, inspiring look at the pioneers who shaped how we do business today.

Establishing a Hematopoietic Stem Cell Transplantation Unit - Éliane Gluckman 2017-11-17
This text aims to provide simplified practical guidelines to start a hematopoietic stem cell transplantation unit which could be implemented in most centers and countries worldwide. The book also provides guidelines for existing transplantation units to upgrade their practice and implement new policies and procedures, in addition to developing therapies according to latest international standards and regulations. The book covers a wide range of practical implementation tools including HSCT program team structure, building inpatient and outpatient HSCT units, requisite laboratory support for transplantation program, practical aspects of stem cell collection and processing, HSCT program quality management, education and training, and data management. The book also addresses cost effectiveness and recommendations for establishing transplantation program in countries with limited resources. Written by group of internationally established experts in their corresponding hematopoietic stem cell transplantation fields, with contributions from many leaders of hematopoietic stem cell transplantation organizations, Establishing a Hematopoietic Stem Cell Transplantation Unit: A Practical Guide is an essential, practical resource for all members of the multidisciplinary hematopoietic stem cell transplantation team.

Handbook of Energy Efficiency and Renewable Energy - D. Yogi Goswami 2007-05-07
Brought to you by the creator of numerous bestselling handbooks, the Handbook of Energy Efficiency and Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection. The handbook emphasizes the engineering aspects of energy conservation and renewable energy. Taking a world view, the editors discuss key topics underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about energy and environmental futures. This is vital information for planning a secure energy future. Practical in approach, the book covers technologies currently available or expected to be ready for implementation in the near future. It sets the stage with a survey of current and future world-wide energy issues, then explores energy policies and incentives for conservation and renewable energy, covers economic assessment methods for conservation and generation technologies, and discusses the environmental costs of various energy generation technologies. The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies, economics, and environmental costs of fossil and nuclear technologies. Highlighting energy conservation as the cornerstone of a successful national energy strategy, the book covers

energy management strategies for industry and buildings, HVAC controls, co-generation, and advances in specific technologies such as motors, lighting, appliances, and heat pumps. It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems. These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future.

Sarrafian's Anatomy of the Foot and Ankle - Armen S Kelikian 2012-03-29
Featuring original anatomical dissection photographs prepared by Shahan K. Sarrafian, MD, FACS, FAOS, ABOS, Sarrafian's Anatomy of the Foot and Ankle is the classic book in foot and ankle anatomy. Meticulously updated, this new edition captures all of today's clinical knowledge on the anatomy of the foot and ankle. Detailed coverage of functional anatomy, applied anatomy biomechanics, and cross-sectional anatomy further enhances your understanding of the complexities associated with disorders of the foot and ankle.

Vascular Diagnosis with Ultrasound - Michael Hennerici 2011-01-01
The critically acclaimed Vascular Diagnosis of Ultrasound returns in a new two-volume second edition, offering the most comprehensive information available on the broad spectrum of vascular ultrasound applications. Volume 1:Cerebral and Peripheral Vessels retains the accessible design and structure of the first edition to discuss the available ultrasound technologies, including continuous and pulsed-wave Doppler mode, b-mode, and conventional and color-coded duplex analysis in frequency and amplitude power modes. This text covers anatomy, physiology, normal and abnormal findings, test accuracy and sensitivity, providing the reader with the information essential to managing common clinical situations. Highlights: Provides comprehensive coverage of vascular ultrasonography in the arteries and veins of the cerebral circulation and the peripheral upper and lower limb circulation Compares other diagnostic methods used in each region, such as conventional and noninvasive MR angiography Assesses recent developments in ultrasound technology, including tissue perfusion studies, 3D and 4D imaging, contrast enhancement and microbubble applications, and their diagnostic, technological, and therapeutic implications Features new challenging case studies for both the novice and the expert to review With contributions from experts in the field and more than 500 line drawings and images, this text is an indispensable reference for radiologists, vascular surgeons, and residents and students in these specialties.

Handbook of Smart Textiles - Xiaoming Tao 2015-10-14
The "Handbook of Smart Textiles" aims to provide a comprehensive overview in the field of smart textile describing the state of the art in the research sector as well as the well-established techniques applied in industries. The handbook is planned to cover from fundamental theories, experimental techniques, characterization methods, as well as real applications with successful commercialized examples. The book is structured in a way in which it is appropriate for graduate students, PhD candidates, and professionals in diverse scientific and engineering communities devoted to relevant fields, including textile engineering, chemistry, bioengineering, material engineering, mechanical engineering, electrical engineering. The book will also provide a solid reference for industrial players who look for innovative technologies as well as environmental, safety concerns for the development of smart textile related products.

Atlas of Peripheral Nerve Ultrasound - Siegfried Peer 2013-02-26
In recent years, sonography of the peripheral nervous system has gained widespread acceptance. New diagnostic applications have emerged, and the field of ultrasound-guided interventions has expanded significantly: regional anesthesia, peripheral nerve blocks, and similar techniques are now frequently performed under ultrasound guidance by anesthesiologists and pain physicians alike. This atlas of peripheral nerve ultrasound is designed to meet the daily needs of both radiologists and clinicians by allowing rapid review of typical features, knowledge of which is important for successful diagnosis and intervention. The side by side presentation of ultrasound images with anatomical cryosections and photographs of transducer positions allows for reliable sonographic identification of even tiny nerves in regions of complex topography. The practical value of the atlas is further enhanced by correlations with high-resolution MRI scans.