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New Advances in Mechanisms, Mechanical Transmissions and Robotics Erwin-Christian Lovasz, Inocentiu Maniu, Ioan Doroftei, Mircea Ivanescu, Corina-Mihaela Gruescu. 2020-10-14 This volume gathers the proceedings of the Joint International Conference of the XIII International Conference on Mechanisms and Mechanical Transmissions (MTM) and the XXIV International Conference on Robotics (Robotics), held in Timișoara, Romania. It addresses the applications of mechanisms and transmissions in several modern technical fields such as mechatronics, biomechanics, machines, micromachines, robotics and apparatus. In doing so, it combines theoretical findings and experimental testing. The book presents peer-reviewed papers written by researchers specialized in mechanism analysis and synthesis, dynamics of mechanisms and machines, mechanical transmissions, biomechanics, precision mechanics, mechatronics, micromechanisms and microactuators, computational and experimental methods, CAD in mechanism and machine design, mechanical design of robot architecture, parallel robots, mobile robots, micro and nano robots, sensors and actuators in robotics, intelligent control systems, biomedical engineering, teleoperation, haptics, and virtual reality.

Federal Register .2013-08

Handbook of Human Factors and Ergonomics in Health Care and Patient Safety Pascale Carayon. 2006-09-08 A complete resource, this handbook presents current knowledge on concepts and methods of human factors and ergonomics, and their applications to help improve quality, safety, efficiency, and effectiveness in patient care. It provides specific information on how to analyze medical errors with the fundamental goal to reduce such errors and the harm that potentially ensues. Editor Pascale Carayon and an impressive group of contributors highlight important issues relevant to healthcare providers and professionals and their employers. They discuss the design of work environments and working conditions to improve satisfaction and well-being, and the reduction of burnout and other ailments often experienced by healthcare providers and professionals. It is a remarkably comprehensive account offering readers invaluable knowledge from individuals who are some of the most respected in the field.

Springer Handbook of Medical Technology Rüdiger Kramme, Klaus-Peter Hoffmann, Robert Steven Pozos. 2011-10-02 This concise, user-oriented and up-to-date desk reference offers a broad introduction to the fascinating world of medical technology, fully considering today's progress and further development in all relevant fields. The Springer Handbook of Medical Technology is a systemized and well-structured guideline which distinguishes itself through simplification and condensation of complex facts. This book is an indispensable resource for professionals working directly or indirectly with medical systems and appliances every day. It is also meant for graduate and post graduate students in hospital management, medical engineering, and medical physics.

Bioelectronics and Medical Devices Dr. Kunal Pal, Heinz-Bernhard Kraatz, Anwasha Khasnobish, Sandip Bag, Indranil Banerjee, Usha Kuruganti. 2019-06-15 Bioelectronics and Medical Devices: From Materials to Devices-Fabrication, Applications and Reliability reviews the latest research on electronic devices used in the healthcare sector, from materials, to applications, including biosensors, rehabilitation devices, drug delivery devices, and devices based on wireless technology. This information is presented from the unique interdisciplinary perspective of the editors and contributors, all with materials science, biomedical engineering, physics, and chemistry backgrounds. Each applicable chapter includes a discussion of these devices, from materials and fabrication, to reliability and technology applications. Case studies, future research directions and recommendations for additional readings are also included. The book addresses hot topics, such as the latest, state-of-the-art biosensing devices that have the ability for early detection of life-threatening diseases, such as tuberculosis, HIV and cancer. It covers rehabilitation devices and advancements, such as the devices that could be utilized by advanced-stage ALS patients to improve

their interactions with the environment. In addition, electronic controlled delivery systems are reviewed, including those that are based on artificial intelligences. Presents the latest topics, including MEMS-based fabrication of biomedical sensors, Internet of Things, certification of medical and drug delivery devices, and electrical safety considerations Presents the interdisciplinary perspective of materials scientists, biomedical engineers, physicists and chemists on biomedical electronic devices Features systematic coverage in each chapter, including recent advancements in the field, case studies, future research directions, and recommendations for additional readings

World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany Olaf Dössel, Wolfgang C. Schlegel.2010-01-06 Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering - the triennial scientific meeting of the IUPESM - is the world's leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in-depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.

Wireless Mobile Communication and Healthcare Konstantina S. Nikita, James C. Lin, Dimitrios I. Fotiadis, Maria-Teresa Arredondo Waldmeyer.2012-05-30 This book constitutes the refereed proceedings of the Second International ICST Conference on Wireless Mobile Communication and Healthcare, MobiHealth 2011, held on Kos Island, Greece, in October 2011. The 60 revised full papers presented were carefully reviewed and selected from more than 80 submissions. The papers are organized in 10 sessions and two workshops with topics covering intrabody communications, chronic disease monitoring and management, ambient assistive technologies, implantable and wearable sensors, emergency and disaster applications.

Design of Assistive Technology for Ageing Populations Andree Woodcock, Louise Moody, Deana McDonagh, Ajita Jain, Lakhmi C. Jain.2019-11-20 This book focuses on various aspects of research on ageing, including in relation to assistive technology; dignity of aging; how technology can support a greater understanding of the experience of physically aging and cognitive changes; mobility issues associated with the elderly; and emerging technologies. The 80+ age group represents an expanding market, with an estimated worth of £21.4 billion a year. Everyone is affected by this shift in demographics - we are getting older and may become carers - and we need to prepare ourselves and adjust our surroundings for longer life. Products, services and environments have been changing in response to the changing population. Presenting international design research to demonstrate the thinking and ideas shaping design, this book is a valuable resource for designers; product developers; employers; gerontologists; and medical, health and service providers; as well as everyone interested in aging.

HCI and Usability for Medicine and Health Care Andreas Holzinger.2007-11-08 This book constitutes the refereed proceedings of the Third Usability Symposium of the Human-Computer Interaction and Usability Engineering Workgroup of the Austrian Computer Society, USAB 2007, held in Graz, Austria, in November 2007. The 21 revised full papers and 18 revised short papers presented together with one poster paper and one tutorial were carefully reviewed and selected from 97 submissions during two rounds of reviewing and improvement.

Introduction to Bioinformatics and Clinical Scientific Computing Paul S. Ganney.2022-12-19 This textbook provides an introduction to computer science theory, informatics best practice, and the standards and legislation that apply to computing in a healthcare environment. It delivers an accessible discussion of databases (construction, interrogation and maintenance); networking (design and low-level application); programming (best practice rather than the specifics of any one language - design, maintenance, safety). It can be used to accompany the NHS Modernising Scientific Careers syllabus. It is also targeted towards those creating software rather than those using it, particularly computer scientists working in healthcare, specifically those in or close to the Physical Sciences, including radiotherapy, nuclear medicine, and equipment management and those working with genomics and health informatics. Features Combines all topics into one comprehensive introduction. Explores practical applications of theory to healthcare. Can be used to accompany the NHS Modernising Scientific Careers syllabus.

Medical Device Use Error Michael Wiklund,Andrea Dwyer,Erin Davis.2016-01-06 Medical Device Use Error: Root Cause Analysis offers practical guidance on how to methodically discover and explain the root cause of a use error-a mistake-that occurs when someone uses a medical device. Covering medical devices used in the home and those used in clinical environments, the book presents informative case studies about the use errors

Designing Usability into Medical Products Michael E. Wiklund,Stephen B. Wilcox.2005-02-11 Advocating a user-centered approach to medical technology design, Designing Usability into Medical Products covers the essential processes and specific techniques necessary to produce safe, effective, usable, and appealing medical systems and products. Written by experts on user-centered research, design, and evaluation, the book provides a range of alternative approaches to the subject. Wiklund and Wilcox explore how to make medical devices safe and effective by involving users in the design process. They discuss specific design and evaluation methods and tools, present case studies of user-friendly medical technologies and corporate human factors programs, and supply related resources for medical design professionals. The book conveys an in-depth understanding of the user-centered design process, covers design methods for FDA compliance, and offers guidance on performing a variety of hands-on user research, user interface design, and user interface evaluation. The authors make a compelling case for treating the user's needs and preferences as a top design priority, rather than an afterthought. They demonstrate that high-quality customer interactions with systems and products leads to effective medical diagnosis and treatment, increases the physical and mental well being of patients and caregivers, and leads to commercial success in a crowded marketplace.

Human-Machine Interface Rishabha Malviya,Sonali Sundram,Bhupendra Prajapati,Sudarshan Kumar Singh.2023-11-21 HUMAN-MACHINE INTERFACE The book contains the latest advances in healthcare and presents them in the frame of the Human-Machine Interface (HMI). The Human-Machine Interface (HMI) industry has witnessed the evolution from a simple push button to a modern touch-screen display. HMI is a user interface that allows humans to operate controllers for machines, systems, or instruments. Most medical procedures are improved by HMI systems, from calling an ambulance to ensuring that a patient receives adequate treatment on time. This book describes the scenario of biomedical technologies in the context of the advanced HMI, with a focus on direct brain-computer connection. The book describes several HMI tools and related techniques for analyzing, creating, controlling, and upgrading healthcare delivery systems, and provides details regarding how advancements in technology, particularly HMI, ensure ethical and fair use in patient care. Audience The target audience for this book is medical personnel and policymakers in healthcare and pharmaceutical professionals, as well as engineers and researchers in computer science and artificial intelligence.

Handbook of Human Factors in Medical Device Design Matthew Bret Weinger,Michael E. Wiklund,Daryle Jean Gardner-Bonneau.2010-12-13 Developed to promote the design of safe, effective, and usable medical devices, Handbook of Human Factors in Medical Device Design provides a single convenient source of authoritative information to support evidence-based design and evaluation of medical device user interfaces using rigorous human factors engineering

principles. It offers guidance

Neurorehabilitation Technology David J. Reinkensmeyer, Volker Dietz. 2016-08-03 This revised, updated second edition provides an accessible, practical overview of major areas of technical development and clinical application in the field of neurorehabilitation movement therapy. The initial section provides a rationale for technology application in movement therapy by summarizing recent findings in neuroplasticity and motor learning. The following section then explains the state of the art in human-machine interaction requirements for clinical rehabilitation practice. Subsequent sections describe the ongoing revolution in robotic therapy for upper extremity movement and for walking, and then describe other emerging technologies including electrical stimulation, virtual reality, wearable sensors, and brain-computer interfaces. The promises and limitations of these technologies in neurorehabilitation are discussed. Throughout the book the chapters provide detailed practical information on state-of-the-art clinical applications of these devices following stroke, spinal cord injury, and other neurologic disorders. The text is illustrated throughout with photographs and schematic diagrams which serve to clarify the information for the reader. Neurorehabilitation Technology, Second Edition is a valuable resource for neurologists, biomedical engineers, roboticists, rehabilitation specialists, physiotherapists, occupational therapists and those training in these fields.

Medical Electrical Equipment .2020 IEC 60601-1-6 specifies a process for a manufacturer to analyse, specify, design, verify and validate usability, as it relates to basic safety and essential performance of medical electrical equipment. This usability engineering process assesses and mitigates risks caused by usability problems associated with correct use and use errors, e.g., normal use. It can be used to identify but does not assess or mitigate risks associated with abnormal use. If the usability engineering process detailed in this collateral standard has been complied with and the acceptance criteria documented in the usability validation plan have been met (see 5.9 of IEC 62366:2007), then the residual risks, as defined in ISO 14971, associated with usability of the equipment are presumed to be acceptable, unless there is objective evidence to the contrary (see 4.1.2 of IEC 62366:2007). The object of this collateral standard is to specify general requirements that are in addition to those of the general standard and to serve as the basis for particular standards. This document cancels and replaces the second edition of IEC 60601-1-6 which has been technically revised. It was revised to align with the usability engineering process in IEC 62366.-- Techstreet.com.

Applied Human Factors in Medical Device Design Mary Beth Privitera. 2019-06-15 Applied Human Factors in Medical Device Design describes the contents of a human factors toolbox with in-depth descriptions of both empirical and analytical methodologies. The book begins with an overview of the design control process, integrating human factors as directed by AAMI TIR 59 and experienced practice. It then explains each method, describing why each method is important, its potential impact, when it's ideal to use, and related challenges. Also discussed are other barriers, such as communication breakdowns between users and design teams. This book is an excellent reference for professionals working in human factors, design, engineering, marketing and regulation. Focuses on meeting agency requirements as it pertains to the application of human factors in the medical device development process in both the US and the European Union (EU) Explains technology development and the application of human factors throughout the development process Covers FDA and MHRA regulations Includes case examples with each method

13th International Conference on Biomedical Engineering Chwee Teck Lim, James Goh Cho Hong. 2009-03-15 On behalf of the organizing committee of the 13 International Conference on Biomedical Engineering, I extend our warmest welcome to you. This series of conference began in 1983 and is jointly organized by the YLL School of Medicine and Faculty of Engineering of the National University of Singapore and the Biomedical Engineering Society (Singapore). First of all, I want to thank Mr Lim Chuan Poh, Chairman A*STAR who kindly agreed to be our Guest of Honour to give the Opening Address amidst his busy schedule. I am delighted to report that the 13 ICBME has more than 600 participants from 40 countries. We have received very high quality papers and

inevitably we had to turn down some papers. We have invited very prominent speakers and each one is an authority in their field of expertise. I am grateful to each one of them for setting aside their valuable time to participate in this conference. For the first time, the Biomedical Engineering Society (USA) will be sponsoring two symposia, ie "Drug Delivery Systems" and "Systems Biology and Computational Bioengineering". I am thankful to Prof Tom Skalak for his leadership in this initiative. I would also like to acknowledge the contribution of Prof Takami Yamaguchi for organizing the NUS-Tohoku's Global COE workshop within this conference. Thanks also to Prof Fritz Bodem for organizing the symposium, "Space Flight Bioengineering". This year's conference proceedings will be published by Springer as an IFMBE Proceedings Series.

World Congress on Medical Physics and Biomedical Engineering 2018 Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott. 2018-05-29 This book (vol. 2) presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics, a triennially organized joint meeting of medical physicists, biomedical engineers and adjoining health care professionals. Besides the purely scientific and technological topics, the 2018 Congress will also focus on other aspects of professional involvement in health care, such as education and training, accreditation and certification, health technology assessment and patient safety. The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge, and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field.

Robust Electronic Design Reference Book: no special title John R. Barnes. 2004 If you design electronics for a living, you need Robust Electronic Design Reference Book. Written by a working engineer, who has put over 115 electronic products into production at Sycor, IBM, and Lexmark, Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that: -Work. -Are safe and reliable. -Can be manufactured, tested, repaired, and serviced. -May be sold and used worldwide. -Can be adapted or enhanced to meet new and changing requirements.

Usability Testing of Medical Devices Michael E. Wiklund P.E., Jonathan Kendler, Allison Y. Strochlic. 2015-12-23 Usability Testing of Medical Devices covers the nitty-gritty of usability test planning, conducting, and results reporting. The book also discusses the government regulations and industry standards that motivate many medical device manufacturers to conduct usability tests. Since publication of the first edition, the FDA and other regulatory groups have

Anesthesia Equipment E-Book Jan Ehrenwerth, James B. Eisenkraft, James M Berry. 2020-08-07 Offering highly visual, easy-to-read coverage of the full range of anesthesia equipment in use today, this authoritative reference is your go-to text for objective, informed answers to ensure optimal patient safety. Anesthesia Equipment, 3rd Edition, provides detailed information on the intricate workings of each device or workstation, keeping you fully up to date and helping you meet both equipment and patient care challenges. Remains unequalled in both depth and breadth of coverage, offering readable, concise guidance on all aspects of today's anesthesia machines and equipment. Details the latest machines, vaporizers, ventilators, breathing systems, vigilance, ergonomics, and simulation. Improves your understanding of the physical principles of equipment, the rationale for its use, delivery systems for inhalational anesthesia, systems monitoring, hazards and safety features, maintenance and quality assurance, special situations/equipment for non-routine adult anesthesia, and future directions for the field. Includes ASA Practice Parameters for care, and helps you ensure patient safety with detailed advice on risk management and medicolegal implications of equipment use. Highlights the text with hundreds of full-color line drawings and photographs, graphs, and charts.

Handbook of Bioequivalence Testing Sarfaraz K. Niazi. 2007-08-22 As the generic pharmaceutical industry continues to grow and thrive, so does the need to conduct efficient and successful bioequivalence studies. In recent years, there have been significant changes to the statistical models for evaluating bioequivalence, and advances in the analytical technology used to detect drug and metabolite levels have made

Distributed Computing and Monitoring Technologies for Older Patients Juris

Klonovs, Mohammad Ahsanul Haque, Volker Krüger, Kamal Nasrollahi, Karen Andersen-Ranberg, Thomas B. Moeslund, Erika Geraldina Spaich. 2016-01-21 This book summarizes various approaches for the automatic detection of health threats to older patients at home living alone. The text begins by briefly describing those who would most benefit from healthcare supervision. The book then summarizes possible scenarios for monitoring an older patient at home, deriving the common functional requirements for monitoring technology. Next, the work identifies the state of the art of technological monitoring approaches that are practically applicable to geriatric patients. A survey is presented on a range of such interdisciplinary fields as smart homes, telemonitoring, ambient intelligence, ambient assisted living, gerontechnology, and aging-in-place technology. The book discusses relevant experimental studies, highlighting the application of sensor fusion, signal processing and machine learning techniques. Finally, the text discusses future challenges, offering a number of suggestions for further research directions.

International Encyclopedia of Ergonomics and Human Factors, Second Edition - 3 Volume Set

Informa Healthcare, Waldemar Karwowski. 2006-03-15 The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind. It was also a winner of the Best Reference Award 2002 from the Engineering Libraries Division, American Society of Engineering Education, USA, and the Outstanding Academic Title 2002 from Choice Magazine. Not content to rest on his laurels, human factors and ergonomics expert Professor Waldemar Karwowski has overhauled his standard-setting resource, incorporating coverage of tried and true methods, fundamental principles, and major paradigm shifts in philosophy, thought, and design. Demonstrating the truly interdisciplinary nature of this field, these changes make the second edition even more comprehensive, more informative, more, in a word, encyclopedic. Keeping the format popularized by the first edition, the new edition has been completely revised and updated. Divided into 13 sections and organized alphabetically within each section, the entries provide a clear and simple outline of the topics as well as precise and practical information. The book reviews applications, tools, and innovative concepts related to ergonomic research. Technical terms are defined (where possible) within entries as well as in a glossary. Students and professionals will find this format invaluable, whether they have ergonomics, engineering, computing, or psychology backgrounds. Experts and researchers will also find it an excellent source of information on areas beyond the range of their direct interests.

MR Safety, An Issue of Magnetic Resonance Imaging Clinics of North America, E-Book

Robert E Watson. 2020-10-23 This issue of MRI Clinics of North America focuses on MR Safety and is edited by Dr. Robert E. Watson. Articles will include: Key elements of clinical MRI safety; Standardized approaches to MR safety assessment of patients with implanted devices; Performing MRI safely in patients with implanted electronic devices: cardiac electronic implanted devices and neurostimulators; Implanted devices: SAR considerations for common diagnostic examinations; Testing of commonly implanted devices for MR conditional labelling; MR safety in the 7T environment; Physics of MR safety; MRI safety considerations of gadolinium based contrast agents: gadolinium retention and nephrogenic systemic fibrosis; MRI safety: Siting and zoning considerations; Elements of effective patient screening to improve safety in MRI, including use of ferromagnetic detection systems; MRI safety in the interventional environment; MRI Safety: Pregnancy and Lactation; MR safety: Computer MRI simulations for testing of electronic devices; and more!

Medical-Grade Software Development Ilkka Juuso, Ilpo Pöyhönen. 2023-11-13 This book is a practical guide to meeting IEC 62304 software-development requirements within the context of an ISO 13485 quality management system (QMS). The book proves this can be done with a minimum amount of friction, overlap, and back-and-forth between development stages. It essentially shows you how you should shape your medical-software development processes to fit in with the QMS processes in the smartest and leanest way possible. By following the advice in this book, you can reuse processes

from your QMS, ensure your product-realization processes meet the requirements for medical-software development, and marry all the requirements together using tried and tested solutions into one efficient system. The expertise of the authors here goes beyond just the experiences of one real-world project as they tap into over 30 years of experience and countless software and software-assessment projects to distill their advice. The book takes a hands-on approach by first teaching you the top 25 lessons to know before starting to develop a process for medical-software development. It then walks you through the expectations placed on the key aspects of such a process by the key standards. The book progresses from an overview of both standards and the general requirements involved to a detailed discussion of the expected stages from software development and maintenance to risk management, configuration management, and problem resolution. The book provides insightful advice on how the requirements of the IEC 62304 software-development life cycle can be married with an ISO 13485 QMS, how the development of the technical file should be organized, and how to address conformity assessment, the daily after-approval, and the recent trends that will affect the industry in the coming years. The book is modeled after the IEC 62304 standard and adopts its clause structure in the numbering of sections for easy reference. The book does not attempt to replicate either standard. For the ISO 13485 standard, it recites the necessary requirements succinctly. For IEC 62304, the discussion is in-depth and also addresses the impact of ISO 13485 on the requirements discussed. In this way, the book drills into both standards to expose the core of each requirement and shape these into a practical, cohesive workflow for developing, maintaining, and improving a Lean software development pipeline.

Electromagnetic Environments and Health in Buildings Derek Clements-Croome.2004

Electromagnetic Environments and Health in Buildings brings together the work of an international group of specialists in this fragmented subject area. The book covers health effects of electromagnetic fields, emission standards and offers some

Medical Device Regulatory Practices Val Theisz.2015-08-03 This book is intended to serve as a reference for professionals in the medical device industry, particularly those seeking to learn from practical examples and case studies. Medical devices, like pharmaceuticals, are highly regulated, and the bar is raised constantly as patients and consumers expect the best-quality healthcare and safe and effective medical technologies. Obtaining marketing authorization is the first major hurdle that med techs need to overcome in their pursuit of commercial success. Most books on regulatory affairs present regulations in each jurisdiction separately: European Union, USA, Australia, Canada, and Japan. This book proposes practical solutions for a coherent, one-size-fits-all (or most) set of systems and processes in compliance with regulations in all key markets, throughout the life cycle of a medical device. It also contains key information about international harmonization efforts and recent regulatory trends in emerging markets; important terminology needed to understand the regulators' language; and examples, case studies, and practical recommendations that bridge the gap between regulatory theory and practice.

Biomedical Engineering and its Applications in Healthcare Sudip Paul.2019-11-08 This book illustrates the significance of biomedical engineering in modern healthcare systems. Biomedical engineering plays an important role in a range of areas, from diagnosis and analysis to treatment and recovery and has entered the public consciousness through the proliferation of implantable medical devices, such as pacemakers and artificial hips, as well as the more futuristic technologies such as stem cell engineering and 3-D printing of biological organs. Starting with an introduction to biomedical engineering, the book then discusses various tools and techniques for medical diagnostics and treatment and recent advances. It also provides comprehensive and integrated information on rehabilitation engineering, including the design of artificial body parts, and the underlying principles, and standards. It also presents a conceptual framework to clarify the relationship between ethical policies in medical practice and philosophical moral reasoning. Lastly, the book highlights a number of challenges associated with modern healthcare technologies.

Petri Nets Guanjun Liu.2022-11-03 This book provides essential information on Petri net theory and Petri net-based model checking methods. As for the Petri net theory, it involves the interleaving

semantics and concurrency semantics of elementary net systems, some important net structures (e.g., invariant, repetitive vector, siphon, and trap), some classical net subclasses with special structures (e.g., state machine, marked graph, free-choice net, asymmetric-choice net, normal net, and weakly persistent net), and some basic properties (e.g., reachability, liveness, deadlock, and soundness). It also involves four high-level Petri nets: knowledge-oriented Petri nets, Petri nets with insecure places, time Petri nets, and plain time Petri nets with priorities, focusing on different fields of application. As for the model checking methods, this book introduces readers to computation tree logic (CTL), computation tree logic of knowledge (CTLK), and timed computation tree logic (TCTL), as well as Petri net-based methods for checking them. The basic principle of the reduced ordered binary decision diagram (ROBDD) is employed to compress the state space used in these model checking procedures. The book also covers time-soundness for time Petri nets and secure bisimulation for Petri nets with insecure places, both of which are based on the bisimulation theory. As such, it offers an introduction to basic information on bisimulation theory.

Introduction to Biomedical Engineering Technology, 4th Edition Laurence J.

Street.2022-08-10 This updated fourth edition provides current information on devices and is divided into diagnostic and treatment sections. Devices are described with the theory of operation and relevant anatomical and physiological considerations. Aspects of BMET work including test equipment, standards, and information technology are also discussed. The text covers a wide variety of diagnostic and treatment devices currently used in hospitals that students will likely encounter in their career. Principles of operation and examples of use are provided. This book is unique in that it is written by an experienced biomed tech with 30 years' experience in hospitals rather than by engineers with little frontline experience. It is also unique in that it provides ancillary materials on the web and is the only guide divided into diagnostic and treatment device sections. This new edition also includes two new chapters on computers, information technology, and networking as well as health technology management. From the previous edition: The book presents a comfortable balance between clinical applications, basic technical information, and various pictures of medical technologies one will encounter in the field. Additionally, related anatomy and physiology principles and essential technical terms are a nice complement to the technologies presented. The everyday duties and responsibilities of a biomed are captured by the various 'true-to-life' scenarios introduced throughout the book. —Joey Jones, Madisonville Community College, Kentucky, USA This book is intended for students in biomedical engineering technology and healthcare technology management (BMET/HTM) programs as well as biomedical engineering students. Field service representatives, medical device designers, and medical device sales representatives will also find it useful.

Introduction to Biomedical Engineering Technology Laurence J. Street.2016-09-19 This new edition provides major revisions to a text that is suitable for the introduction to biomedical engineering technology course offered in a number of technical institutes and colleges in Canada and the US. Each chapter has been thoroughly updated with new photos and illustrations which depict the most modern equipment available in medical technology. This third edition includes new problem sets and examples, detailed block diagrams and schematics and new chapters on device technologies and information technology.

Wireless Sensor Networks Ibrahiem M. M. El Emary, S. Ramakrishnan.2013-08-28 Although there are many books available on WSNs, most are low-level, introductory books. The few available for advanced readers fail to convey the breadth of knowledge required for those aiming to develop next-generation solutions for WSNs. Filling this void, *Wireless Sensor Networks: From Theory to Applications* supplies comprehensive coverage of WS

EMC for Installers Mark Van Helvoort, Mathieu Melenhorst.2018-09-21 The integration of electronics in large systems and installations steadily increases, consider for example the emergence of the Industrial Internet of Things. Power consumption decreases while the operating speed increases making equipment potentially more vulnerable for interference. The responsibility of the installer is shifting towards that of the system integrator, requiring more in-depth knowledge to achieve and maintain EMC during the technical and economical lifespan of the system or installation and the

distinction between both diminishes. *EMC for Installers: Electromagnetic Compatibility of Systems and Installations* combines an integral risk based approach to EMC design and management with robust technical measures. Written by two experts, who both started nearly three decades ago in EMC, it provides guidance to those new in the field and serves as reference to those with experience. The book starts with the basic concept of EMC and evolves gradually towards more difficult topics. Particular attention is given to grounding concepts and the protection of cabling and wiring. This book puts a strong focus on passive means that are widely available for each installer: cable conduits used for cable routing can be exploited for significant improvement of the EMC-behavior of the system or installation. In addition, it will be explained how to use standard metallic enclosures to enhance the EMC-performance. For most demanding situations shielded rooms and shielding cabinets are explained. This book describes pre-compliance and full-compliance testing tailored to large systems. Templates and checklists are provided for both risk and management and test management. Electromagnetic compatibility explained as simple as possible, without oversimplifying. Practical approach, with hands-on demonstrations based on an example installation. Learn how to exploit cable conduits, used for cable routing anyway, to improve the EMC performance of an installation. Learn how to exploit standard metallic enclosures to improve EMC in systems. Design of power distribution networks to minimize disturbing fields. Toolbox and templates for managing and sustaining EMC over a long lifetime.

Governance, Risk, and Compliance Handbook Anthony Tarantino.2008-03-11 Providing a comprehensive framework for a sustainable governance model, and how to leverage it in competing global markets, *Governance, Risk, and Compliance Handbook* presents a readable overview to the political, regulatory, technical, process, and people considerations in complying with an ever more demanding regulatory environment and achievement of good corporate governance. Offering an international overview, this book features contributions from sixty-four industry experts from fifteen countries.

Advances in Human Factors and Ergonomics in Healthcare Vincent G. Duffy,Nancy Lightner.2016-07-26 This book discusses the latest advances in human factors and ergonomics, focusing on methods for improving quality, safety, efficiency, and effectiveness in patient care. By emphasizing the physical, cognitive and organizational aspects of human factors and ergonomics applications, it reports on various perspectives, including those of clinicians, patients, health organizations and insurance providers. The book describes cutting-edge applications, highlighting the best practices of staff interactions with patients, as well as interactions with computers and medical devices. It also presents new findings related to improved organizational outcomes in healthcare settings, and approaches to modeling and analysis specifically targeting those work aspects unique to healthcare. Based on the AHFE 2016 International Conference on Human Factors and Ergonomics in Healthcare, held on July 27-31, 2016, in Walt Disney World®, Florida, USA, the book is intended as timely reference guide for both researchers involved in the design of healthcare systems and devices and healthcare professionals aiming at effective and safe health service delivery. Moreover, by providing a useful survey of cutting-edge methods for improving organizational outcomes in healthcare settings, the book also represents an inspiring reading for healthcare counselors and international health organizations.

Medical Devices Carlo Boccato,Sergio Cerutti,Joerg Vienken.2022-02-24 This book provides caregivers and administrators with high-quality support for strategic decision making in the selection and use of medical devices so as to ensure value optimization. Medical treatment is increasingly complex, with wide application of medical devices and corresponding involvement of physics and engineering. A multidisciplinary methodology that brings together expertise from key disciplines in a holistic, system-oriented approach is essential in controlling this complexity and further improving health care. This book will help readers to understand the design, validation, and application of medical devices and the standards and regulations that apply to them across the world. In addition, it provides technical, operational, and economic perspectives on their use. The relevance of concepts such as expenditure optimization and sustainability to medical device

technology is explained and healthcare reimbursement systems are discussed from different points of view. Readers will gain a clear appreciation of the managerial and economic implications of the use of medical devices and how to get the most out of them. Academic research, industrial experiences, and case studies are presented as appropriate.

Electromagnetic Fields in Biological Systems James C. Lin.2016-04-19 Spanning static fields to terahertz waves, this volume explores the range of consequences electromagnetic fields have on the human body. Topics discussed include essential interactions and field coupling phenomena; electric field interactions in cells, focusing on ultrashort, pulsed high-intensity fields; dosimetry or coupling of ELF fields into biological systems; and the historical developments and recent trends in numerical dosimetry. It also discusses mobile communication devices and the dosimetry of RF radiation into the human body, exposure and dosimetry associated with MRI and spectroscopy, and available data on the interaction of terahertz radiation with biological tissues, cells, organelles, and molecules.

Technical Specifications for Oxygen Concentrators World Health Organization.2016-10-25 The purpose of this guidance document is for the appropriate selection procurement utilization and maintenance of oxygen concentrators. This document also focuses on recommendations for the appropriate use and maintenance of oxygen concentrators in an effort to increase the availability management and quality of oxygen concentrators and ultimately to improve health outcomes in LRS. This document is intended to serve as a resource for the planning and provision of local and national oxygen concentrator systems for use by administrators clinicians and technicians who are interested in improving access to oxygen therapy and reducing global mortality associated with hypoxaemia.

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