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Principles and Perspectives

Root Cause Analysis

Proceedings of ESREL 2018, June 17-21, 2018, Trondheim, Norway

A Reliable Approach for Safe, Sustainable and Accessible Healthcare

Production, Applications, and Safety

WHO Technical Specifications for Neonatal Resuscitation Devices

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16th International Conference, SPICE 2016, Dublin, Ireland, June 9-10, 2016,

Proceedings

Health Information Systems

Medical Device Use Error

Trends in Development of Medical Devices

Materials for Medical Application

Workshop

Product Lifecycle Management

Handbook of Radiotherapy Physics

Quality of Information and Communications Technology

13th International Conference, QUATIC 2020, Faro, Portugal, September 9-11, 2020,

Proceedings

Decontamination in Hospitals and Healthcare

Product Realization

Third International Workshop, RISK 2015, Berlin, Germany, June 15, 2015. Revised

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## Medical Equipment Management

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### **DUKE CASON**

#### *Principles and Perspectives* Woodhead Publishing

This book constitutes the refereed proceedings of the 13th International Conference on the Quality of Information and Communications Technology, QUATIC 2020, held in Faro, Portugal\*, in September 2020. The 27 full papers and 12 short papers were carefully reviewed and selected from 81 submissions. The papers are organized in topical sections: quality aspects in machine learning, AI and data analytics; evidence-based software quality engineering; human and artificial intelligences for software evolution; process modeling, improvement and assessment; software quality education and training; quality aspects in quantum computing; safety, security and privacy; ICT verification and validation; RE, MDD and agile. \*The conference was held virtually due to the COVID-19 pandemic.

#### **Root Cause Analysis**

CRC Press

Worldwide, the population ageing is a reality. The concept of Active Ageing, adopted by the World Health Organization, aims to guarantee quality ageing and appears as a strategy to solve this demographic challenge. The technological solutions might have a key role in the promotion of human functioning and in the mitigation of disabilities, particularly those resulting from the natural ageing process. This perspective is evident in the development of Ambient Assisted Living (AAL) solutions. In this context, it is relevant to know about the recent developments in AAL and discuss future trends and challenges in this area. One of the objectives of this book is to do a systematic literature review on AAL, not only considering the technology used, but also the health condition that is intended to improve. For this purpose, we consider the human functioning, in particular the conceptual model of International Classification of Functioning, Disability and Health (ICF). Considering that the ICF conceptual framework is

accepted within the healthcare domain, the use of its concepts and terminologies to promote multidisciplinary approaches for AAL solutions development processes can help to overcome difficulties of communication between users, careers and technological developers. AAL solutions must consider in their development the needs of the person that will use AAL solutions. The development must be user-centred and usability questions cannot be forgotten. In addition, the acceptance of the AAL solutions is closely related to the quality of the systems, so it is necessary to appropriately assess these solutions.

*Proceedings of ESREL 2018, June 17-21, 2018, Trondheim, Norway*  
Springer

The two-volume set IFIP AICT 639 and 640 constitutes the refereed post-conference proceedings of the 18th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2021, held in Curitiba, Brazil, during July 11-14, 2021. The conference was held

virtually due to the COVID-19 crisis. The 107 revised full papers presented in these proceedings were carefully reviewed and selected from 133 submissions. The papers are organized in the following topical sections: Volume I: Sustainability, sustainable development and circular economy; sustainability and information technologies and services; green and blue technologies; AI and blockchain integration with enterprise applications; PLM maturity, PLM implementation and adoption within industry 4.0; and industry 4.0 and emerging technologies: Volume II: Design, education and management; lean, design and innovation technologies; information technology models and design; and models, manufacturing and information technologies and services.

[A Reliable Approach for Safe, Sustainable and Accessible Healthcare](#)

Springer Nature

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Symposium on Foundations of Health Information Engineering

and Systems, FHIES 2013, held in Macau, China, in August 2013. The 19 revised full papers presented together with 1 invited talk in this volume were carefully reviewed and selected from 22 submissions. The papers are organized in following subjects: panel position statements, pathways, generation and certification, interoperability, patient safety, device safety, formal methods and HIV/AIDS and privacy.

**Production, Applications, and Safety** Springer

This book defines, develops, and examines the foundations of the APQP (Advanced Product Quality Planning) methodology. It explains in detail the five phases, and it relates its significance to national, international, and customer specific standards. It also includes additional information on the PPAP (Production Part Approval Process), Risk, Warranty, GD&T (Geometric Dimensioning and Tolerancing), and the role of leadership as they apply to the continual improvement process of any organization. Features Defines and explains the five stages of APQP in detail Identifies

and zeroes in on the critical steps of the APQP methodology Covers the issue of risk as it is defined in the ISO 9001, IATF 16949, the pending VDA, and the OEM requirements Presents the role of leadership and management in the APQP methodology Summarizes all of the change requirements of the IATF standard

[WHO Technical](#)

[Specifications for Neonatal Resuscitation](#)

[Devices](#) Walter de Gruyter GmbH & Co KG

Safety Risk Management for Medical Devices, Second Edition teaches the essential safety risk management methodologies for medical devices compliant with the requirements of ISO 14971:2019. Focusing exclusively on safety risk assessment practices required in the MedTech sector, the book outlines sensible, easily comprehensible, state-of-the-art methodologies that are rooted in current industry best practices, addressing safety risk management of medical devices, thus making it useful for those in the MedTech sector who are responsible for safety risk management or need to understand risk management, including

design engineers, product engineers, development engineers, software engineers, Quality assurance and regulatory affairs. Graduate-level engineering students with an interest in medical devices will also benefit from this book. The new edition has been fully updated to reflect the state-of-the-art in this fast changing field. It offers guidance on developing and commercializing medical devices in line with the most current international standards and regulations. Includes new coverage of ISO 14971:2019, ISO/TR 24971 Presents the latest information on the history of risk management, lifetime of a medical device, risk management review, production and post production activities, post market risk management Provides practical, easy-to-understand and state-of-the-art methodologies that meet the requirements of international regulation

**From Fundamentals to Translational Medicine**  
World Health Organization  
Decontamination in Hospitals and Healthcare, Second Edition, enables users to obtain detailed knowledge of decontamination practices

in healthcare settings, including surfaces, devices, clothing and people, with a specific focus on hospitals and dental clinics. Offers in-depth coverage of all aspects of decontamination in healthcare Examines the decontamination of surgical equipment and endoscopes Expanded to include new information on behavioral principles in decontamination, control of microbiological problems, waterborne microorganisms, pseudomonas and the decontamination of laundry

*Application of Clinical Bioinformatics* CRC Press  
This book elucidates how genetic, biological and medical information can be applied to the development of personalized healthcare, medication and therapies. Focusing on aspects of the development of evidence-based approaches in bioinformatics and computational medicine, including data integration, methodologies, tools and models for clinical and translational medicine, it offers an essential introduction to clinical bioinformatics for clinical researchers and physicians, medical

students and teachers, and scientists working with human disease-based omics and bioinformatics. Dr. Xiangdong Wang is a distinguished Professor of Medicine. He is Director of Shanghai Institute of Clinical Bioinformatics, Director of Fudan University Center for Clinical Bioinformatics, Deputy Director of Shanghai Respiratory Research Institute, Director of Biomedical Research Center, Fudan University Zhongshan Hospital, Shanghai, China; Dr. Christian Baumgartner is a Professor of Health Care and Biomedical Engineering at Institute of Health Care Engineering with European Notified Body of Medical Devices, Graz University of Technology, Graz, Austria; Dr. Denis Shields is a Professor of Clinical Bioinformatics at Conway Institute, Belfield, Dublin, Ireland; Dr. Hong-Wen Deng is a Professor at Department of Biostatistics and Bioinformatics, Tulane University School of Public Health and Tropical Medicine, USA; Dr. Jacques S Beckmann is a Professor and Director of Section of Clinical Bioinformatics, Swiss Institute of Bioinformatics,

Switzerland.  
*Diagnostic Radiology Physics with MATLAB®*  
 Academic Press  
 Covering the entire spectrum of medical gases, this ready reference offers a comprehensive overview of production, medical gas equipment, medical gas verification, and medical gas safety standards. With a clear focus throughout on safety, the text recommends environmentally responsible manufacturing practices during each step of the process: manufacture, storage, transport, distribution, and in applications. It also discusses standards and regulations, in particular those of the European Union. An essential guide for researchers and professionals whose work includes the manufacture, handling, or use of medical gases.  
*16th International Conference, SPICE 2016, Dublin, Ireland, June 9-10, 2016, Proceedings* Taylor & Francis  
 Safety and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway,

June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management  
 Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental

sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.  
Health Information Systems Springer Nature  
 This book aims at informing on new trends, challenges and solutions, in the multidisciplinary field of biomedical engineering. It covers traditional biomedical engineering topics, as well as innovative applications such as artificial intelligence in health care, tissue engineering, neurotechnology and wearable devices. Further topics include mobile health and electroporation-based technologies, as well as new treatments in

medicine. Gathering the proceedings of the 8th European Medical and Biological Engineering Conference (EMBEC 2020), held on November 29 - December 3, 2020, in Portorož, Slovenia, this book bridges fundamental and clinically-oriented research, emphasizing the role of education, translational research and commercialization of new ideas in biomedical engineering. It aims at inspiring and fostering communication and collaboration between engineers, physicists, biologists, physicians and other professionals dealing with cutting-edge themes in and advanced technologies serving the broad field of biomedical engineering.

Medical Device Use Error  
CRC Press

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.

#### **Trends in Development of Medical Devices**

Springer Nature

This book presents the proceedings from the International Symposium for Production Research 2020. The cross-disciplinary papers presented draw on research from academics and practitioners from industrial engineering, management engineering, operational research, and production/operational management. It explores topics including: · computer-aided manufacturing; Industry

4.0 applications; simulation and modeling big data and analytics; flexible manufacturing systems; decision analysis quality management industrial robotics in production systems information technologies in production management; and optimization techniques. Presenting real-life applications, case studies, and mathematical models, this book is of interest to researchers, academics, and practitioners in the field of production and operation engineering.

Materials for Medical Application Walter de Gruyter GmbH & Co KG

The use of nanotechnologies continues to grow, as nanomaterials have proven their versatility and use in many different fields and industries within the scientific profession. Using nanotechnology, materials can be made lighter, more durable, more reactive, and more efficient leading nanoscale materials to enhance many everyday products and processes. With many different sizes, shapes, and internal structures, the applications are endless. These uses range from

pharmaceuticals to materials such as cement or cloth, electronics, environmental sustainability, and more. Therefore, there has been a recent surge of research focused on the synthesis and characterizations of these nanomaterials to better understand how they can be used, their applications, and the many different types. The *Research Anthology on Synthesis, Characterization, and Applications of Nanomaterials* seeks to address not only how nanomaterials are created, used, or characterized, but also to apply this knowledge to the multidimensional industries, fields, and applications of nanomaterials and nanoscience. This includes topics such as both natural and manmade nanomaterials; the size, shape, reactivity, and other essential characteristics of nanomaterials; challenges and potential effects of using nanomaterials; and the advantages of nanomaterials with multidisciplinary uses. This book is ideally designed for researchers, engineers, practitioners, industrialists, educators, strategists, policymakers,

scientists, and students working in fields that include materials engineering, engineering science, nanotechnology, biotechnology, microbiology, drug design and delivery, medicine, and more.

**Workshop** John Wiley & Sons

This is a practical book for health and IT professionals who need to ensure that patient safety is prioritized in the design and implementation of clinical information technology. Healthcare professionals are increasingly reliant on information technology to deliver care and inform their clinical decision making. Health IT provides enormous benefits in efficiency, communication and decision making. However a number of high-profile UK and US studies have concluded that when Health IT is poorly designed or sub-optimally implemented then patient safety can be compromised. Manufacturers and healthcare organizations are increasingly required to demonstrate that their Health IT solutions are proactively assured. Surprisingly the majority of systems are not subject to regulation so there is

little in the way of practical guidance as to how risk management can be achieved. The book fills that gap. The author, a doctor and IT professional, harnesses his two decades of experience to characterize the hazards that health technology can introduce. Risk can never be eliminated but by drawing on lessons from other safety-critical industries the book systematically sets out how clinical risk can be strategically controlled. The book proposes the employment of a Safety Case to articulate and justify residual risk so that not only is risk proactively managed but it is seen to be managed. These simple techniques drive product quality and allow a technology's benefits to be realized without compromising patient safety.

*Product Lifecycle Management* William Andrew

From the essential background physics and radiobiology to the latest imaging and treatment modalities, the updated second edition of *Handbook of Radiotherapy Physics: Theory & Practice* covers all aspects of the subject. In Volume 1, Part A

includes the Interaction of Radiation with Matter (charged particles and photons) and the Fundamentals of Dosimetry with an extensive section on small-field physics. Part B covers Radiobiology with increased emphasis on hypofractionation. Part C describes Equipment for Imaging and Therapy including MR-guided linear accelerators. Part D on Dose Measurement includes chapters on ionisation chambers, solid-state detectors, film and gels, as well as a detailed description and explanation of Codes of Practice for Reference Dose Determination including detector correction factors in small fields. Part E describes the properties of Clinical (external) Beams. The various methods (or 'algorithms') for Computing Doses in Patients irradiated by photon, electron and proton beams are described in Part F with increased emphasis on Monte-Carlo-based and grid-based deterministic algorithms. In Volume 2, Part G covers all aspects of Treatment Planning including CT-, MR- and Radionuclide-based patient imaging, Intensity-Modulated Photon Beams,

Electron and Proton Beams, Stereotactic and Total Body Irradiation and the use of the dosimetric and radiobiological metrics TCP and NTCP for plan evaluation and optimisation. Quality Assurance fundamentals with application to equipment and processes are covered in Part H. Radionuclides, equipment and methods for Brachytherapy and Targeted Molecular Therapy are covered in Parts I and J, respectively. Finally, Part K is devoted to Radiation Protection of the public, staff and patients. Extensive tables of Physical Constants, Photon, Electron and Proton Interaction data, and typical Photon Beam and Radionuclide data are given in Part L. Edited by recognised authorities in the field, with individual chapters written by renowned specialists, this second edition of Handbook of Radiotherapy Physics provides the essential up-to-date theoretical and practical knowledge to deliver safe and effective radiotherapy. It will be of interest to clinical and research medical physicists, radiation oncologists, radiation technologists, PhD and Master's students.

*Handbook of Radiotherapy Physics*  
Springer Nature  
The broad and developing scope of ergonomics - the application of scientific knowledge to improve people's interaction with products, systems and environments - has been illustrated for 27 years by the books which make up the Contemporary Ergonomics series. This book presents the proceedings of the international conference on Contemporary Ergonomics  
*Quality of Information and Communications Technology* Academic Press  
With more international contributors than ever before, Block's Disinfection, Sterilization, and Preservation, 6th Edition, is the first new edition in nearly 20 years of the definitive technical manual for anyone involved in physical and chemical disinfection and sterilization methods. The book focuses on disease prevention—rather than eradication—and has been thoroughly updated with new information based on recent advances in the field and understanding of the risks, the technologies available, and the regulatory environments.



**13th International Conference, QUATIC 2020, Faro, Portugal, September 9-11, 2020, Proceedings** Quality Press

Know What to Expect When Managing Medical Equipment and Healthcare Technology in Your Organization As medical technology in clinical care becomes more complex, clinical professionals and support staff must know how to keep patients safe and equipment working in the clinical environment. Accessible to all healthcare professionals and managers, Medical Equipment Management presents an integrated approach to managing medical equipment in healthcare organizations. The book explains the

underlying principles and requirements and raises awareness of what needs to be done and what questions to ask. It also provides practical advice and refers readers to appropriate legislation and guidelines. Starting from the medical equipment lifecycle, the book takes a risk-based approach to improving the way in which medical devices are acquired and managed in a clinical context. Drawing on their extensive managerial and teaching experiences, the authors explain how organizational structures and policies are set up, how funding is allocated, how people and equipment are supported, and what to do when things go wrong.

Decontamination in Hospitals and Healthcare CRC Press

This book constitutes the thoroughly refereed conference proceedings of the Third International Workshop on Risk Assessment and Risk-driven Testing, RISK 2015, held in conjunction with the OMG Technical Meeting in Berlin, Germany, in June 2015. The revised 8 full papers were carefully reviewed and selected from 12 submissions. This workshop addresses systematic approaches that combine risk assessment and testing. Also, the workshop was structured into the three sessions namely Risk Assessment, Risk and Development and Security Testing.

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