

IEC 60601-1 – THE THIRD EDITION

By Charles Sidebottom, Harvey Rudolph, Michael Schmidt and Leo Eisner

IEC 60601-1:2005 (first edition)
published in 2007

The third edition of IEC 60601-1 represents a major overhaul of the IEC 60601 family of medical electrical equipment safety standards. First published in 1977, IEC 60601-1 has become the 'bible' of electromedical equipment safety and the parent standard of over 60 particular device standards ranging from diagnostic electrocardiographs to electron accelerators used in radiotherapy.

An Outline of the Changes

The journey toward the third edition began before the last amendment was published in 1995. Formal work on the project began in early 1997 and has taken nearly nine years to complete. During the process of developing the third edition, the scope of IEC 60601-1 was significantly modified and expanded. The first major change came when the long-standing debate within IEC Subcommittee 62A over what some considered an unnecessary limitation in the scope of the standard was resolved, and the Subcommittee removed the phrase 'under medical supervision' from the definition of medical electrical equipment. This change ended the debate over whether or not equipment that met all the other characteristics of medical electrical equipment, but was not intended to be used by or under the direct supervision of a trained professional, was within the scope of IEC 60601-1. The automatic external defibrillator (AED) now is covered in airports and other public spaces is a good example. While such devices clearly fulfil all the other characteristics of medical electrical equipment, it can be persuasively argued that they are not intended to be used under medical supervision. Under the revised scope of the third edition, there is no question that AEDs are covered by IEC 60601-1.

The second major change occurred when Subcommittee 62A accepted a proposal from France to add 'or compensation or alleviation of disease, injury or disability' to the definition of medical electrical equipment. Historically, medical electrical equipment was limited to devices intended by their manufacturer to 'diagnose, treat or monitor a patient'. The UK also argued that a strict interpretation of the scope of the second edition of IEC 60601-1 excluded certain patient handling and support equipment. This equipment is not covered in the scope of the IEC Committee dealing with aids for the disabled, except that some models may be intended for both domains of use. Many in the community felt that excluding these devices leaves a large hole in the standard's coverage. A number of other standards, such as ISO 8535 for patient lifting equipment, refer to IEC 60601-1 for electrical safety requirements and so for IEC 60601-1 to exclude this equipment is a contradiction.

Another issue that was extensively debated during the development of the third edition was the relationship of the collateral

Changes of the standard
have been summarized and
highlighted in this edition

Definition of medical
electrical equipment
now extended

Iec 60601 1 Third Edition

Christian Drosten



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Reliable Design of Medical Devices, Third Edition Richard C. Fries, 2012-09-06 As medical devices become even more intricate concerns about efficacy safety and reliability continue to be raised Users and patients both want the device to operate as specified perform in a safe manner and continue to perform over a long period of time without failure Following in the footsteps of the bestselling second edition *Reliable Design of Medical Devices Third Edition* shows you how to improve reliability in the design of advanced medical devices Reliability engineering is an integral part of the product development process and of problem solving activities related to manufacturing and field failures Mirroring the typical product development process the book is organized into seven parts After an introduction to the basics of reliability engineering and failures it takes you through the concept feasibility design verification and validation design transfer and manufacturing and field activity phases Topics covered include Six Sigma for design human factors safety and risk analysis and new techniques such as accelerated life testing ALT and highly accelerated life testing HALT What's New in This Edition Updates throughout reflecting changes in the field An updated software development process Updated hardware test procedures A new layout that follows the product development process A list of deliverables needed at the end of each development phase Incorporating reliability engineering as a fundamental design philosophy this book shares valuable insight from the author's more than 35 years of experience A practical guide it helps you develop a more effective reliability engineering program contributing to increased profitability more satisfied customers and less risk of liability *Federal Register*, 2014

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 **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

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-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 Cardiac Fibrillation-defibrillation Max E.

Valentinuzzi,2010 This compendium gives a comprehensive overview of the advances in fibrillation defibrillation knowledge recognition of fibrillation as a unique life threatening cardiac arrhythmia discovery of the electric discharge in its double role of culprit and savior and technological improved contributions The book stands on the well known philosophy of Education Based on Problems or EBP that is take fibrillation as a medical daily problem and search for that knowledge technique or principle trying to solve it The book is interdisciplinary multidisciplinary and transdisciplinary It addresses undergraduate and graduate biomedical engineering students physicians going into cardiology clinical engineers and clinical engineering technicians nurses paramedics and emergency medical personnel **Mission-Critical and Safety-Critical Systems**

Handbook Kim Fowler,2009-11-19 This handbook provides a consolidated comprehensive information resource for engineers working with mission and safety critical systems Principles regulations and processes common to all critical design projects are introduced in the opening chapters Expert contributors then offer development models process templates and documentation guidelines from their own core critical applications fields medical aerospace and military Readers will gain in depth knowledge of how to avoid common pitfalls and meet even the strictest certification standards Particular emphasis is placed on best practices design tradeoffs and testing procedures Comprehensive coverage of all key concerns for designers of critical systems including standards compliance verification and validation and design tradeoffs Real world case studies contained within these pages provide insight from experience **Anesthesia Equipment E-Book** Jan Ehrenwerth,James B.

Eisenkraft,James M Berry,2013-03-12 Anesthesia Equipment Principles and Applications 2nd Edition by Dr Jan Ehrenwerth and Dr James B Eisenkraft offers expert highly visual practical guidance on the full range of delivery systems and technology used in practice today It equips you with the objective informed answers you need to ensure optimal patient safety Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Make informed decisions

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Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2015-10-02 As modern technologies continue to develop and evolve the ability of users to interface with new systems becomes a paramount concern Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of 21st century tools Human Computer Interaction Concepts Methodologies Tools and Applications gathers research on user interfaces for advanced technologies and how these interfaces can facilitate new developments in the fields of robotics assistive technologies and computational intelligence This four volume reference contains cutting edge research for computer scientists faculty and students of robotics digital science and networked communications and clinicians invested in assistive technologies This seminal reference work includes chapters on topics pertaining to system usability interactive design mobile interfaces virtual worlds and more

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