

Guidelines

FOR DESIGN AND CONSTRUCTION OF

Health Care Facilities

The Facility Guidelines Institute

2010 edition



Includes ANSI/ASHRAE/ASHE
Standard 170-2008,
Ventilation of
Health Care Facilities



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2010 Hospital Design Guidelines

**Carole Kenner, Leslie Altimier, Marina
V. Boykova**



2010 Hospital Design Guidelines:

Guidelines for Design and Construction of Health Care Facilities 2010 Facilities Guidelines Institute, 2010-01

Sound & Vibration 2.0 David Sykes, Gregory C. Tocci, William J. Cavanaugh, 2012-10-02 This document was commissioned by the Facility Guidelines Institute as the sole reference for acoustics in health care facilities. It was written by the Health Care Acoustics Working Group, a permanent committee of the Acoustics Research Council (ARC) comprised of members of leading professional societies in acoustics, noise control, engineering, acoustical consulting, and related professions. ARC organized the health care Working Group in 2004, drawing its members from ten constituencies that range from medicine to law, public policy, architecture, design, and engineering in order to provide constructive guidance on sound and vibration based on research and best practices. Sound and Vibration 2.0 has been adopted as the sole reference standard for acoustics in health care facilities by the 2010 FGI ASHE Guidelines for the Design and Construction of Healthcare Facilities, used in 60 countries; the US Green Building Council's LEED for Healthcare, used in 87 countries; The Green Guide for Health Care V2.2; and the International Code Council's IGCC 2011. Sound and vibration are topics of increasing prominence in the design, construction, and operation of healthcare facilities. A satisfactory acoustical environment in a healthcare facility is now viewed as an essential component of effective healthcare. Sensible acoustical and privacy planning in the early design stages of a healthcare facility project can be solved effectively and affordably with a few strokes of the designer's pencil. The recommended minimum design requirements presented in this work are therefore intended to aid designers in achieving satisfactory acoustical and privacy environments in healthcare facilities. This handbook includes comprehensive practical and measurable guidelines for all aspects of acoustics in the design, construction, and evaluation of all types of healthcare facilities, including large general hospitals, specialized patient care facilities, and ambulatory patient care facilities.

A Guide to Hospital Administration and Planning Dinesh Bhatia, Prabhat Kumar Chaudhari, Bhupinder Chaudhary, Sushman Sharma, Kunaal Dhingra, 2023-01-04 This book is a compilation of work by experts from the different domains of the healthcare industry, ranging from hospital planning to quality management, clinical services to disaster management. Healthcare organizations being diverse, sensitive, and intricate warrant thorough and flawless planning. The structure should be not only operationally efficient but also safe for its occupants and visitors. It starts with a brief introduction of the healthcare sector at different levels. It also attempts to justify how the changing healthcare landscape paved the way for establishing a contemporary and ever-evolving specialty of Hospital planning and designing, which is dynamic and frequently requires continuous improvements and updates. Clinical and non-clinical departments have been separately classified in this book, and their respective standards and guidelines have been incorporated while describing the planning concepts. Critical areas of a hospital, such as ICU, CCU, have been detailed precisely as the operational requirements and level of different sophistication required. A chapter on security aspects and disaster management has also been

thoroughly envisioned based on the current scenario at the global level Issues and management of Hospital Acquired Infection are explained in different chapters based on its relevance and application in that particular area

Guidelines for Design and Construction of Health Care Facilities 2010 Guidelines Institute Facility, 2010-01-01 Planning and Designing of Specialty Healthcare Facilities Shakti Kumar Gupta, Sunil Kant, R Chandrashekhar, 2020-06-30

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Design Tools for Evidence-Based Healthcare Design Michael Phiri, 2014-12-05

The growing movement towards evidence based healthcare design has largely emphasised a change of culture and attitudes It has advocated for new ways of working but until now it has not focused on equipping healthcare clients and their designers with the practical means to exploit the potential benefits from evidence based architectural design Development of indicators and tools that aid designers and users of the built environments in thinking about quality enhances the design process to achieve better outcomes Importantly design tools can support managers and designers through end user involvement and an increased understanding of what patients and staff expect from their healthcare facilities They can facilitate the creation of patient centred environments which improve user satisfaction Design Tools for Evidence Based Healthcare Design Discusses the tools that are being used to achieve design quality and excellence within the context of NHS procurement systems such as PFI Procure21 and others Collates information that increases our understanding of these tools in order to be able to make the best use of them Clarifies where during the various stages of a building s life from inception design construction occupation and re use these tools should be used in order to derive the benefits possible from evidence based design Provides in one place an authoritative reference publication that will act as a memory a user guide and manual for these design tools Illustrated with case studies from throughout the UK and written by a well known expert in the field

this book will provide essential reading for anyone involved in healthcare design Hospital Epidemiology and Infection Control C. Glen Mayhall, 2012-02-20 Thoroughly revised and updated for its Fourth Edition this highly acclaimed volume is the most comprehensive reference on hospital epidemiology and infection control Written by over 150 leading experts this new edition examines every type of hospital acquired nosocomial infection and addresses every issue relating to surveillance prevention and control of these infections in patients and in healthcare workers This new edition features new or significantly increased coverage of emerging infectious diseases avian influenza governmental regulation of infection control and payment practices related to hospital acquired infections molecular epidemiology the increasing prevalence of community acquired MRSA in healthcare facilities system wide infection control provisions for healthcare systems hospital infection control issues following natural disasters and antimicrobial stewardship in reducing the development of antimicrobial resistant organisms *Design for Pediatric and Neonatal Critical Care* Mardelle McCuskey Shepley, 2014-02-03 Design for Pediatric and Neonatal Critical Care provides an overview of the design and research issues associated with the development of environments for pediatric and neonatal intensive care This is the first and only book dedicated to this topic and was created to support individuals interested in developing and studying critical care environments for children and their families In addition to a detailed analysis of the literature from research and practice the author provides a summary of the historical development of critical care for infants and children and information regarding the role of PICUs and NICUs in the critical care system A discussion of current codes and future trends is also provided Design for Pediatric and Neonatal Critical Care includes essays from prominent voices in the field ranging from inspired young architects and researchers to world renowned healthcare design and research icons Illustrations of work that has been identified as exemplary or representative of recent directions are included which will help those planning new or remodeled projects to identify and examine precedents This book is intended to help designers and researchers enhance healing environments for young patients in critical care settings and provide information in support of the families and staff who provide care for these children and infants *Design for Mental and Behavioral Health* Mardelle McCuskey Shepley, Samira Pasha, 2017-05-18 Studies confirm that the physical environment influences health outcomes emotional state preference satisfaction and orientation but very little research has focused on mental and behavioural health settings This book summarizes design principles and design research for individuals who are intending to design new mental and behavioural health facilities and those wishing to evaluate the quality of their existing facilities The authors discuss mental and behavioural health systems design guidelines design research and existing standards and provide examples of best practice As behavioural and mental health populations vary in their needs the primary focus is limited to environments that support acute care outpatient and emergency care residential care veterans pediatric patients and the treatment of chemical dependency The Executive Guide to Healthcare Kaizen Mark Graban, Joseph E. Swartz, 2017-07-27 Hospitals and health

systems are facing many challenges including shrinking reimbursements and the need to improve patient safety and quality. A growing number of healthcare organizations are turning to the Lean management system as an alternative to traditional cost cutting and layoffs. Kaizen, which is translated from Japanese as good change.

Guidelines for Laboratory Design Louis J. DiBerardinis, Janet S. Baum, Melvin W. First, Gari T. Gatwood, Anand K. Seth, 2013-04-08. Proven and tested guidelines for designing ideal labs for scientific investigations. Now in its Fourth Edition, *Guidelines for Laboratory Design* continues to enable readers to design labs that make it possible to conduct scientific investigations in a safe and healthy environment. The book brings together all the professionals who are critical to a successful lab design, discussing the roles of architects, engineers, health and safety professionals, and laboratory researchers. It provides the design team with the information needed to ask the right questions and then determine the best design while complying with current regulations and best practices. *Guidelines for Laboratory Design* features concise, straightforward advice organized in an easy-to-use format that facilitates the design of safe, efficient laboratories. Divided into five sections, the book records some of the most important discoveries and achievements in Part I: A Common Elements of Laboratory Design sets forth technical specifications that apply to most laboratory buildings and modules. Part II: Common Elements of Renovations offers general design principles for the renovation and modernization of existing labs. Part III: Design Guidelines for a Number of Commonly Used Laboratories explains specifications, best practices, and guidelines for nineteen types of laboratories, with three new chapters covering nanotechnology, engineering, and autopsy labs. Part IV: Laboratory Support Services addresses design issues for imaging facilities, support shops, hazardous waste facilities, and laboratory storerooms. Part V: HVAC Systems explains how to heat, cool, and ventilate labs with an eye towards energy conservation. Part VI: Administrative Procedures deals with bidding procedures, final acceptance inspections, and sustainability. The final part of the book features five appendices filled with commonly needed data and reference materials. This Fourth Edition is indispensable for all laboratory design teams, whether constructing a new laboratory or renovating an old facility to meet new objectives.

Clinical Engineering Handbook Ernesto Iadanza, 2019-12-06. *Clinical Engineering Handbook*, Second Edition, covers modern clinical engineering topics, giving experienced professionals the necessary skills and knowledge for this fast-evolving field. Featuring insights from leading international experts, this book presents traditional practices such as healthcare technology management, medical device service, and technology application. In addition, readers will find valuable information on the newest research and groundbreaking developments in clinical engineering, such as health technology assessment, disaster preparedness, decision support systems, mobile medicine, and prospects and guidelines on the future of clinical engineering. As the biomedical engineering field expands throughout the world, clinical engineers play an increasingly important role as translators between the medical engineering and business professions. In addition, they influence procedures and policies at research facilities, universities, and in private and government agencies. This book explores their current and continuing reach and its

importance Presents a definitive comprehensive and up to date resource on clinical engineering Written by worldwide experts with ties to IFMBE IUPESM Global CE Advisory Board IEEE ACCE and more Includes coverage of new topics such as Health Technology Assessment HTA Decision Support Systems DSS Mobile Apps Success Stories in Clinical Engineering and Human Factors Engineering *Indoor Environmental Quality* Muhammad Abdul Mujeebu,2019-02-27 This book deals with indoor environmental quality IEQ which encompasses diverse factors that affect human life inside a building These factors include indoor air quality IAQ lighting acoustics drinking water ergonomics electromagnetic radiation and so on Enhanced environmental quality can improve the quality of life and productivity of the occupants increase the resale value of the building and minimize the penalties on building owners The book covers an overview of IEQ and its research progress IAQ and its monitoring the best indoor illumination scenes IEQ in healthcare buildings and acoustic comfort in residential buildings and places of worship This book is expected to benefit undergraduate and postgraduate students researchers teachers practitioners policy makers and every individual who has a concern for healthy life *Hospitals and Nursing Homes* Syed Amin Tabish,2021-07-02 *Therapeutic Landscapes* Clare Cooper Marcus,Naomi A Sachs,2013-10-21 This comprehensive and authoritative guide offers an evidence based overview of healing gardens and therapeutic landscapes from planning to post occupancy evaluation It provides general guidelines for designers and other stakeholders in a variety of projects as well as patient specific guidelines covering twelve categories ranging from burn patients psychiatric patients to hospice and Alzheimer s patients among others Sections on participatory design and funding offer valuable guidance to the entire team not just designers while a planting and maintenance chapter gives critical information to ensure that safety longevity and budgetary concerns are addressed *Planning & Designing Health Care Facilities in Developing Countries* Shashikant Sharma,Saurabh Singh,2024-07-16 Building a clinically integrated workplace with a high level of clinical competence requires careful considerations of Hospital Planning For greenfield or brownfield hospital projects clinicians and C Suite executives need to acquire capabilities to address the planning needs of any organization This book aims to provide both theoretical and practical inputs for the Planning Designing of Health Care Facilities in Developing Countries It clearly indicates the steps to be followed facts to be weighed and components to be considered to arrive at a correct planning solution With health reform looming and the revenue base shifting rapidly we need to integrate patient safety concerns in the design process Key Features Liberal use of tables and figures to support conclusions illustrate concepts and display quantitative information making it easier for readers to understand and refer to large quantities of data Integrates the international norms for planning and designing health care facilities into the developing country setting Handbook and ready reckoner for C Suite executives hospital engineers project consultants and hospital administration students *Wellbeing: A Complete Reference Guide, Wellbeing and the Environment* Rachel Cooper,Elizabeth Burton,Cary Cooper,2014-03-24 Part of the six volume Wellbeing A Complete Reference Guide this volume examines the ways in which the built environment can

affect and enhance the wellbeing of society Explores the effects of environment on wellbeing and provides insight and guidance for designing creating or providing environments that improve wellbeing Looks at the social and health issues surrounding sustainable energy and sustainable communities and how those connect to concepts of wellbeing Brings the evidence base for environmental wellbeing into one volume from across disciplines including urban planning psychology sociology healthcare architecture and more Part of the six volume set Wellbeing A Complete Reference Guide which brings together leading research on wellbeing from across the social sciences

Best Practices in Infection Prevention and Control Barbara M. Soule, Ziad A. Memish, Preeti N. Malani, 2012 Best Practices in Infection Prevention and Control An International Perspective Second Edition a copublication of Joint Commission International and the Society for Healthcare Epidemiology of America SHEA is an essential infection prevention and control IPC resource for health care organizations This fully updated edition provides thorough analysis of JCI's and other IPC requirements as well as case studies tips and tools for increasing IPC compliance and patient safety

Comprehensive Neonatal Nursing Care, Sixth Edition Carole Kenner, Leslie Altimier, Marina V. Boykova, 2019-08-28 Praise for the Fifth Edition This book provides a complete look at neonatal healthcare delivery It includes discussions of contemporary topics of interest such as informatics genetics global health and family centered care which are vital to providers caring for neonates today The case studies and evidence based practice dialogues provide great opportunities for further reflection The book is useful to a wide audience in nursing including undergraduate and graduate nursing students practicing neonatal and pediatric nurses and advanced practice nurses who care for neonates Score 92 4 Stars Doody's Medical Reviews The sixth edition of this acclaimed neonatal nursing text is completely updated to encompass the most current research findings and strategies for providing cost effective and evidence based care It continues to address neonatal care from a physiologic and pathophysiologic perspective with a major emphasis on nursing management at the bedside and advanced practice level It examines each neonatal body system and describes evidence based interventions that assist in understanding the why behind various clinical presentations Integrative management is threaded throughout the text along with extensive research findings to support practice strategies and rationales for sound clinical decision making Case studies evidence based practice boxes QSEN competencies and online resources help to amplify and reinforce content New to the Sixth Edition New technologies including neonatal health care simulation Trauma Informed Care Substantial revisions to the Neonatal Resuscitation Program Updates in Continuous Quality Improvement Emphasis on neuroprotective factors Emerging global trends Genomics and its relationship to precision health prevention of diseases Maternal Fetal Units Neonatal Abstinence Syndrome and maternal drug use Leadership and cost management of the NICU Updates on neonatal care protocols and procedures new treatments and new trends in family centered integrative developmental care New palliative care protocols Video clips regarding parental caregiving Parent perspectives on care Podcasts from experts in the field Highlighted callouts for Emergency Alert Quality and Safety Issues

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Comprehensive Neonatal Nursing Care Carole Kenner, Judy Lott, 2013-08-21 This book provides a complete look at neonatal healthcare delivery This edition includes discussions of contemporary topics of interest such as informatics genetics global health and family centered care which are vital to providers caring for neonates today The case studies and the evidence based practice dialogues at the end of each chapter provide great opportunities for further reflection The book is useful to a wide audience in nursing including undergraduate and graduate nursing students practicing neonatal and pediatric nurses and advanced practice nurses who care for neonates Score 92 4 Stars Doody's Medical Reviews This classic has been thoroughly updated to incorporate the most up to date research findings and strategies for providing cost effective and evidence based care New chapters address emerging infections the late preterm infant and neonatal care from a global perspective Included are updated neonatal care protocols and procedures neuroprotective risk factors new treatments and new trends in developmental care Text integrates the Institute of Medicine's 10M five competencies reflects the Affordable Healthcare Act and the Robert Wood Johnson and 10M report The Future of Nursing The text continues to provide neonatal care from a physiologic and pathophysiologic approach with a major emphasis on nursing management at the bedside and advanced practice level Each neonatal body system is presented along with E B interventions to assist in understanding the why behind what is seen in the clinical area Integrative management is threaded through the text along with extensive research findings to support practice strategies and rationales for sound clinical decision making Topics of recent interest include iatrogenic complications neonatal pain use of computers or other technology in neonatal care and neonatal AIDS Case studies enhance understanding of both common and rare neonatal conditions New to the Fifth Edition New chapters emerging infections the late preterm infant and neonatal care from a global perspective Updated neonatal care protocols and procedures neuroprotective factors new treatment modalities and new trends in developmental care Tackles the UN Millennium Development Goals MDGs Addresses the expansion of the nurse's role in the US and worldwide Provides case studies that lead the reader through the identification diagnosis treatment and evaluation of common and rare neonatal conditions

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