



This proceedings addresses the challenges of urbanization that gravely affect the world's ecosystems. To become efficiently sustainable and regenerative, buildings and cities need to adopt smart solutions. This book discusses innovations of the built environment while depicting how such practices can transform future buildings and urban areas into places of higher value and quality. The book aims to examine the interrelationship between people, nature and technology, which is essential in pursuing smart environments that optimize human wellbeing, motivation and vitality, as well as promoting cohesive and inclusive societies: Urban Sociology - Community Involvement - Place-making and Cultural Continuity - Environmental Psychology - Smart living - Just City. The book presents exemplary practical experiences that reflect smart strategies, technologies and innovations, by established and emerging professionals, provides a forum of real-life discourse. The primary audience for the work will be from the fields of architecture, urban planning and built-environment systems, including multi-disciplinary academics as well as professionals.

"The heated Malthusian-Bosrupian debates still rage over consequences of high population growth, rapid urbanization, dense rural populations and young age structures in the face of drought, poverty, food insecurity, environmental degradation, climate change, instability and the global economic crisis. However, while facile generalizations about the lack of demographic change and lack of progress in meeting the MDGs in sub-Saharan Africa are commonplace, they are often misleading and belie the socio-cultural change that is occurring among a vanguard of more educated youth. Even within Ethiopia, the second largest country at the Crossroads of Africa and the Middle East, different narratives emerge from analysis of longitudinal, micro-level analysis as to how demographic change and responses are occurring, some more rapidly than others. The book compares Ethiopia with other Africa countries, and demonstrates the uniqueness of an African-type demographic transition: a combination of poverty-related negative factors (unemployment, disease, food insecurity) along with positive education, health and higher age-of-marriage trends that are pushing this ruggedly rural and land-locked population to accelerate the demographic transition and stay on track to meet most of the MDGs. This book takes great care with the challenges of inadequate data and weak analytical capacity to research this incipient transition, trying to unravel some of the complexities in this vulnerable Horn of Africa country: A slowly declining population growth rates with rapidly declining child mortality, very high chronic under-nutrition, already low urban fertility but still very high rural fertility; and high population-resource pressure along with rapidly growing small urban places"

With fifteen essays by scholars and professionals, from fields such as policy and law, Health and Well-being for Interior Architecture asks readers to consider climate, geography, and culture alongside human biology, psychology, and sociology. Since designers play such a pivotal role in human interaction with interior and architectural design, this book sheds light on the importance of a designer's attention to health and well-being while also acknowledging the ever changing built environment. Through various viewpoints, and over 30 images, this book guides designers through ways to create and develop interior designs in order to improve occupants' health and well-being.

Comprehensive in scope, this totally revamped edition of a bestseller is the ideal desk reference for anyone tasked with hazard control and safety management in the healthcare industry. Presented in an easy-to-read format, Healthcare Hazard Control and Safety Management, Third Edition examines hazard control and safety management as proactive functions of an organization. Like its popular predecessors, the book supplies a complete overview of hazard control, safety management, compliance, standards, and accreditation in the healthcare industry. This edition includes new information on leadership, performance improvement, risk management, organizational culture, behavioral safety, root cause analysis, and recent OSHA and Joint Commission Emergency Management requirements and regulatory changes. The book illustrates valuable insights and lessons learned by author James T. Tweedy, executive director of the International Board for

Certification of Safety Managers. In the text, Mr. Tweedy touches on the key concepts related to safety management that all healthcare leaders need to understand. Identifies common factors that are often precursors to accidents in the healthcare industry Examines the latest OSHA and Joint Commission Emergency Management Requirements and Standards Covers facility safety, patient safety, hazardous substance safety, imaging and radiation safety, infection control and prevention, and fire safety management Includes references to helpful information from federal agencies, standards organizations, and voluntary associations Outlining a proactive hazard control approach based on leadership involvement, the book identifies the organizational factors that support accident prevention. It also examines organizational dynamics and supplies tips for improving organizational knowledge management. Complete with accompanying checklists and sample management plans that readers can immediately put to use, this text is currently the primary study reference for the Certified Healthcare Safety Professional Examination.

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.

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.

Textbook of Hepatobiliary & Gastrointestinal Surgery is an extensive, illustrated, evidence-based review of complex liver and gastrointestinal surgery, edited by gastrointestinal expert Govind Nandakumar, based at Weill Cornell Medical College, New York. Divided into 63 chapters, the book begins with a chapter on minimally invasive and robotic oesophagectomy, followed by overviews of oesophageal conditions requiring surgery. Subsequent chapters cover the surgical management of a broad range of disorders including Crohn's disease, colitis, and several cancers affecting the hepatobiliary and gastrointestinal systems. Surgical techniques discussed include gastric bypass, banding and sleeve gastrectomy, liver and pancreas transplantation, and a separate chapter on bariatric surgery in developing countries. Textbook of Hepatobiliary & Gastrointestinal Surgery concludes with discussion on radiology techniques, pathology, and nutrition for gastrointestinal patients, and recovery after surgery. 638 full colour illustrations enhance this comprehensive resource for surgeons in training and in practice.

Key Points Comprehensive guide to liver and gastrointestinal surgery for surgeons in training and in practice Contributions from internationally recognised experts, edited by Govind Nandakumar from Weill Cornell Medical College, New York Provides information on a broad range of surgical techniques and management of many disorders 638 illustrations full colour

The current system of international law is experiencing profound transformations. Indeed, the simultaneous processes of globalization combined with the disintegration of international systems of governance and law-making pose complex challenges for legal scholarship. The doctrinal response to these challenges has been theorized within two seemingly contradictory discourses in international law: fragmentation and constitutionalisation. This book takes an innovative approach to international law, viewing the processes of the fragmentation and constitutionalisation as being profoundly interconnected and reflective of each other. It brings together a select group of contributors, including both established and emerging scholars and practitioners, in order to explore the ways in which the problems of fragmentation and constitutionalisation are viscerally linked one to the other and thus mutually conditioning and stimulating. The book considers the theory and practice of international law looking at the two phenomena in relation to the various fields of international law such as international criminal law, cultural heritage law and international environmental law.

Nursing Diagnosis Handbook, 12th Edition Revised Reprint with 2021-2023 NANDA-I® Updates - E-Book

Perianesthesia Nursing Care: A Bedside Guide for Safe Recovery, Second Edition is an essential reference for clinicians caring for perianesthesia patients in a variety of situations, such as in a preop and postanesthesia care unit (PACU), an intensive care unit (ICU), a procedural recovery area, or on a labor and delivery unit. Ideal for perianesthesia nursing orientation and perioperative cross-training programs, it is also a valuable tool for nursing students preparing to sit for the Certified Post Anesthesia Nursing (CPAN) and Certified Ambulatory Perianesthesia Nurse (CAPA) certification examinations. With contributions from leading experts, this reference addresses common clinical issues, population specific knowledge, and surgery specific knowledge. The Second Edition includes a new chapter on trauma, an increased emphasis on non-OR areas, and an extended focus on pediatric patients.

This book features comprehensive, practical, and measureable guidelines for all aspects of acoustics in the design, construction, and evaluation of all types of healthcare facilities, including large general hospitals and specialized patient care facilities.

Learn clinical nursing skills and prepare for success on the Next Generation NCLEX® Examination! Clinical Nursing Skills & Techniques, 10th Edition provides clear, step-by-step guidelines to more than 200 basic, intermediate, and advanced skills. With more than 1,200 full-color illustrations, a nursing process framework, and a focus on evidence-based practice, this manual helps you learn to think critically, ask the right questions at the right time, and make timely decisions. New to this edition are NGN-style unfolding case studies, preparing you for the changes to the NCLEX exam. Written by respected nursing experts Anne Griffin Perry, Patricia A. Potter, Wendy Ostendorf, and Nancy Laplante, this trusted text is the bestselling nursing skills book on the market! Comprehensive coverage includes more than 200 basic, intermediate, and advanced nursing skills and procedures. NEW! Next Generation NCLEX® (NGN)-style unfolding case studies include answers at the back of the book, providing optimal preparation for the Next Generation NCLEX Examination. Rationales for each step within skills explain the why as well as the how of each skill, and include citations from the current literature. Clinical Decision Points alert you to key steps that affect patient outcomes and help them modify care as needed to meet individual patient needs. Unique! Unexpected Outcomes and Related Interventions sections highlight what might go wrong and how to appropriately intervene. Clinical Debrief at the end of each chapter provides case-based review questions that focus on issues such as managing conflict, care prioritization, patient safety, and decision-

making. More than 1,200 full-color photos and drawings make it easier to visualize concepts and procedures. Five-step nursing process format helps you apply the nursing process while learning each skill. Coverage of QSEN core competencies is incorporated into each lesson, including the areas of delegation and collaboration, reporting and recording, safety guidelines, and considerations relating to teaching, pediatric, geriatric, and home care. Unique! Using Evidence in Nursing Practice chapter covers the entire process of conducting research, including collecting, evaluating, and applying evidence from published research. F NEW! Next Generation NCLEX® (NGN)-style unfolding case studies include answers at the back of the book, providing optimal preparation for the Next Generation NCLEX Examination.

Image-guided therapy (IGT) uses imaging to improve the localization and targeting of diseased tissue and to monitor and control treatments. During the past decade, image-guided surgeries and image-guided minimally invasive interventions have emerged as advances that can be used in place of traditional invasive approaches. Advanced imaging technologies such as magnetic resonance imaging (MRI), computed tomography (CT), and positron emission tomography (PET) entered into operating rooms and interventional suites to complement already-available routine imaging devices like X-ray and ultrasound. At the same time, navigational tools, computer-assisted surgery devices, and image-guided robots also became part of the revolution in interventional radiology suites and the operating room. Intraoperative Imaging and Image-Guided Therapy explores the fundamental, technical, and clinical aspects of state-of-the-art image-guided therapies. It presents the basic concepts of image guidance, the technologies involved in therapy delivery, and the special requirements for the design and construction of image-guided operating rooms and interventional suites. It also covers future developments such as molecular imaging-guided surgeries and novel innovative therapies like MRI-guided focused ultrasound surgery. IGT is a multidisciplinary and multimodality field in which teams of physicians, physicists, engineers, and computer scientists collaborate in performing these interventions, an approach that is reflected in the organization of the book. Contributing authors include members of the National Center of Image-Guided Therapy program at Brigham and Women's Hospital and international leaders in the field of IGT. The book includes coverage of these topics: - Imaging methods, guidance technologies, and the therapy delivery systems currently used or in development. - Clinical applications for IGT in various specialties such as neurosurgery, ear-nose-and-throat surgery, cardiovascular surgery, endoscopies, and orthopedic procedures. - Review and comparison of the clinical uses for IGT with conventional methods in terms of invasiveness, effectiveness, and outcome. - Requirements for the design and construction of image-guided operating rooms and interventional suites.

This text provides a state of the art overview of tools for guiding surgeons in the modern operating room. The text explains how many modalities in the current armamentarium of radiologic imaging have been brought to the operating room for real time use. It also explains the current use of near infrared, fluorescent, and chemo-luminescent imaging to guide minimally invasive and open surgery to improve outcome. The book is separated into two sections. The first, discusses the biologic principles that underlie novel visualization of normal organs and pathology. The currently available equipment and equipment anticipated in the near future is covered. The second section summarizes current clinical applications of advanced imaging and visualization in the OR. Novel means of visualizing normal anatomic structures such as nerves, bile duct, and vessels that enhance safety of many operations are covered. Novel biologic imaging using radio-labeled and fluorescent-labeled molecular probes that allow identification of inflammation, vascular abnormalities, and cancer are also discussed. Authored by scientists who pioneer research in optics and radiology, tool makers who use this knowledge to make surgical equipment, and surgeons who innovate the field of surgery using these new operative tools, Imaging and Visualization in the Modern Operating Room is a valuable guide for surgeons, residents and fellows entering the field.

Derived from the renowned multi-volume International Encyclopaedia of Laws, this practical analysis of sports law in Italy deals with the regulation of sports activity by both public authorities and private sports organizations. The growing internationalization of sports inevitably increases the weight of global regulation, yet each country maintains its own distinct regime of sports law and its own national and local sports organizations. Sports law at a national or organizational level thus gains a growing relevance in comparative law. The book describes and discusses both state-created rules and autonomous self-regulation regarding the variety of economic, social, commercial, cultural, and political aspects of sports activities. Self-regulation manifests itself in the form of by-laws, and encompasses organizational provisions, disciplinary rules, and rules of play. However, the trend towards more professionalism in sports and the growing economic, social and cultural relevance of sports have prompted an increasing reliance on legal rules adopted by public authorities. This form of regulation appears in a variety of legal areas, including criminal law, labour law, commercial law, tax law, competition law, and tort law, and may vary following a particular type or sector of sport. It is in this dual and overlapping context that such much-publicized aspects as doping, sponsoring and media, and responsibility for injuries are legally measured. This monograph fills a gap in the legal literature by giving academics, practitioners, sports organizations, and policy makers access to sports law at this specific level. Lawyers representing parties with interests in Italy will welcome this very useful guide, and academics and researchers will appreciate its value in the study of comparative sports law.

For more than 60 years, Shackelford's Surgery of the Alimentary Tract has served as the cornerstone reference in this fast-moving field. With comprehensive coverage of all aspects of GI surgery, the 8th Edition, by Drs. Charles J. Yeo, Steven R. DeMeester, David W. McFadden, Jeffrey B. Matthews, and James W. Fleshman, offers lavishly illustrated, authoritative guidance on endoscopic, robotic, and minimally invasive procedures, as well as current medical therapies. Each section is edited by a premier authority in GI surgery; chapters reflect key topics and are written by a "who's who" of international experts in the field. It's your one-stop resource for proven, systematic approaches to all relevant adult and pediatric GI disorders and operations

This book will introduce your undergrads to the most critical concepts in infection control. Perfect for students with no prior exposure to medical terminology, this hands-on practical text offers case examples of specific pathogens and avoids complex technical jargon, without being too simplistic.

The second edition of Pediatric Critical Care Medicine spans three volumes, with major sections dedicated to specific organ systems. Each major section consists of separate chapters dedicated to reviewing the specific disease processes affecting each organ system. Each chapter concludes with a comprehensive list of references, with brief, concise remarks denoting references of 'special interest' and 'of interest'. Consequently, the books are unique in their comprehensive coverage of pediatric critical care and their ease of use and will be of value to those studying towards pediatric critical care examinations and those who are already qualified.

"It has been estimated that in developed countries up to 10% of hospitalized patients develop infections every year. Not only is there a substantial cost to healthcare systems, but some healthcare associated infections (HCIAs) can be fatal. Since the majority of HCIAs are preventable, reducing HCIAs is now considered to be an integral part of patient safety and quality of care provided by all healthcare institutions worldwide. Unlike other books on infection control, the main strength of this book is to provide clear, up-to-date and practical guidance in infection control in an easy to read format which can act as a quick source of reference on all aspects of HCIA for healthcare workers who are either directly or indirectly involved in prevention and control of HCIAs. Although the book's main audience is infection control practitioners such as doctors, nurses, public health physicians, it is also a valuable reference for environmental health officers, health

educators, practice managers in GP surgeries, and health service managers"--

**THE UPDATED DEFINITIVE REFERENCE ON MEDICAL AND DENTAL OFFICE DESIGN** Medical and Dental Space Planning is an indispensable guide to the myriad of details that make a medical or dental practice efficient and productive. The unique needs of more than thirty specialties, as well as primary care, are explained in the context of new technology and the many regulatory and compliance issues influencing design. Concepts are also presented for ambulatory surgical centers, diagnostic imaging, clinical laboratories, breast care clinics, endoscopy centers, community health centers, radiation oncology, and single-specialty and multispecialty group practices and clinics. A thorough review of the latest dental technology and many creative space plans and design ideas for each dental specialty will be of interest to both dentists and design professionals. Important topics like infection control are top of mind, influencing every aspect of dental office design. An "inside look" at what goes on in each specialist's office will familiarize readers with medical and dental procedures, how they are executed, and the types of equipment used. Technology has radically impacted medical and dental practice: digital radiography, electronic health records, mobile health devices, point-of-care diagnostic testing, digital diagnostic instrumentation, CAD/CAM systems for digital dental impressions and milling of restorations in the dentist's office, portable handheld X-ray, and 3D cone beam computed tomography for dentists all have major implications for facility design. The influence of the Affordable Care Act is transforming primary care from volume-based to value-based, which has an impact on the design of facilities, resulting in team collaboration spaces, larger consultative examination/assessment rooms, and accommodation for multidisciplinary practitioners who proactively manage patient care, often in a patient-centered medical home context. The wealth of information in this book is organized to make it easy to use and practical. Program tables accompany each medical and dental specialty to help the designer compute the number and sizes of required rooms and total square footage for each practice. This handy reference can be used during interviews for a "reality check" on a client's program or during space planning. Other features, for example, help untangle the web of compliance and code issues governing office-based surgery. Illustrated with more than 600 photographs and drawings, Medical and Dental Space Planning is an essential tool for interior designers and architects as well as dentists, physicians, and practice management consultants.

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!

This updated and expanded edition of the book includes four additional chapters on earthwork on sloping sites; transitional curves and super elevation; calculations of super elevations on composite curves; and underground mine surveying. Richly illustrated with diagrams, equations and tables as well as examples of every day survey tasks. It also covers new topics, such as the global navigation satellite system's (Real Time Kinematic-RTK), which are increasingly used in a wide range of everyday engineering applications.

Essentials of Perioperative Nursing, Sixth Edition is an essential reference for new perioperative nurses as well as experienced nurses who need a refresher. Addressing the basics associated with navigating the perioperative environment rather than a procedure-oriented approach, it is succinct and easy to use. Completely updated and revised, the Sixth Edition features a greater emphasis on safety, new surgical modalities, and approaches to sterilizing surgical instruments and equipment.

An evidence-based guide that describes how to lead an effective operating room, ensuring safety and efficiency while maximizing resources.

This volume provides guidance on how to design, develop and implement service management both as an organisational capability and a strategic asset. It is a guide to a strategic review of ITIL-based service management capabilities, with the aim of improving their alignment with overall business needs. It is written primarily for senior managers who provide leadership and direction in the form of objectives, plans and policies. It is also benefits managers at other levels, by explaining the logic of senior management decisions.

A quick, easy-to-consult source of practical overviews on wide-ranging issues of concern for those responsible for the health and safety of workers This new and completely revised edition of the popular Handbook is an ideal, go-to resource for those who need to anticipate, recognize, evaluate, and control conditions that can cause injury or illness to employees in the workplace. Devised as a "how-to" guide, it offers a mix of theory and practice while adding new and timely topics to its core chapters, including prevention by design, product stewardship, statistics for safety and health, safety and health management systems, safety and health management of international operations, and EHS auditing. The new edition of Handbook of Occupational Safety and Health has been rearranged into topic sections to better categorize the flow of the chapters. Starting with a general introduction on management, it works its way up from recognition of hazards to safety evaluations and risk assessment. It continues on the health side beginning with chemical agents and ending with medical surveillance. The book also offers sections covering normal control practices, physical hazards, and management approaches (which focuses on legal issues and workers compensation). Features new chapters on current developments like management systems, prevention by design, and statistics for safety and health Written by a number of pioneers in the safety and health field Offers fast overviews that enable individuals not formally trained in occupational safety to quickly get up to speed Presents many chapters in a "how-to" format Featuring contributions from numerous experts in the field, Handbook of Occupational Safety and Health, 3rd Edition is an excellent tool for promoting and maintaining the physical, mental, and social well-being of workers in all occupations and is important to a company's financial, moral, and legal

welfare.

This book focuses exclusively on the surgical patient and on the perioperative environment with its unique socio-technical and cultural issues. It covers preoperative, intraoperative, and postoperative processes and decision making and explores both sharp-end and latent factors contributing to harm and poor quality outcomes. It is intended to be a resource for all healthcare practitioners that interact with the surgical patient. This book provides a framework for understanding and addressing many of the organizational, technical, and cultural aspects of care to one of the most vulnerable patients in the system, the surgical patient. The first section presents foundational principles of safety science and related social science. The second exposes barriers to achieving optimal surgical outcomes and details the various errors and events that occur in the perioperative environment. The third section contains prescriptive and proactive tools and ways to eliminate errors and harm. The final section focuses on developing continuous quality improvement programs with an emphasis on safety and reliability. *Surgical Patient Care: Improving Safety, Quality and Value* targets an international audience which includes all hospital, ambulatory and clinic-based operating room personnel as well as healthcare administrators and managers, directors of risk management and patient safety, health services researchers, and individuals in higher education in the health professions. It is intended to provide both fundamental knowledge and practical information for those at the front line of patient care. The increasing interest in patient safety worldwide makes this a timely global topic. As such, the content is written for an international audience and contains materials from leading international authors who have implemented many successful programs.

*Design That Cares: Planning Health Facilities for Patients and Visitors*, 3rd Edition is the award-winning, essential textbook and guide for understanding and achieving customer-focused, evidence-based health care design excellence. This updated third edition includes new information about how all aspects of health facility design – site planning, architecture, interiors, product design, graphic design, and others - can meet the needs and reflect the preferences of customers: patients, family and visitors, as well as staff. The book takes readers on a journey through a typical health facility and discusses, in detail, at each stop along the way, how design can demonstrate care both for and about patients and visitors. *Design that Cares* provides the definitive roadmap to improving customer experience by design.

This interdisciplinary guide offers background, research findings, and practical strategies for assessing and improving air quality in hospitals and other healthcare settings. Positioning good air quality as critical to patient and staff well-being, it identifies disease-carrying microbes, pollutants, and other airborne toxins and their health risks, and provides localized interventions for reducing transmission of pathogens. Effective large-scale approaches to air quality control are also outlined, from green building materials to hygienic HVAC and air treatment practices. Its thoroughness of coverage makes this book a vital resource for professionals involved in every aspect of health service facilities, from planning and construction to maintenance and management. Among the topics covered: Existing guidelines in indoor air quality: the case study of hospital environments Hospital environments and epidemiology of healthcare-associated infections Analysis of microorganisms in hospital environments and potential risks

Legionella indoor air contamination in healthcare environments HVAC system design in healthcare facilities and control of aerosol contaminants Assessment of indoor air quality in inpatient wards Indoor Air Quality in Healthcare Facilities imparts up-to-date expertise to a variety of professional readers, including hospitals' technical and management departments, healthcare facilities' chief medical officers, hospital planners, sport and thermal building designers, public health departments, and students of universities and schools of hygiene.

This book presents cutting-edge surgical techniques and the new operating rooms supporting them, as well as their future developments. In recent years, with the advances in surgical medicine, surgical techniques have undergone great changes. However, safety and reliability are still the major requirements of the operating room, and these are closely linked to the patients' wellbeing. The new medical instruments and medical materials being developed to perform surgery more safely, reliably and efficiently are vital technologies supporting this. "New techniques" involve the introduction of innovative medical instruments and medical materials, and these, too, are increasing in terms of performance and size every year. Surgery and Operating Room Innovation discusses these issues from the perspective of various professionals involved with operating rooms.

A growing body of research demonstrates how the arts – including literary, performing and visual arts as well as architecture and design – can greatly enhance the experience of healthcare, contributing to improved health outcomes, a better patient experience and lower healthcare costs. This unique book provides an overview of what the arts in healthcare can achieve and how to implement the arts in the most effective manner. Exploring possibilities for innovative program design and implementation – from healing gardens through public performances to bedside activities – the text draws on examples from a wide range of arts. The book then goes on to look at how programs can be aimed at specific populations and fields, such as children, palliative care and caregivers. This comprehensive book is an invaluable reference for all those studying or engaged in creating, designing, managing and evaluating arts in healthcare programs and initiatives.

Principles of Hepatic Surgery introduces the reader to current trends in Liver surgery knowledge and practice. This reference book covers liver surgery fundamentals as well as cutting-edge progress in this exciting surgical specialty. Contributions have been written by expert hepatic surgeons from major medical centers around the world. Key features include: Information organized into five comprehensive sections: i) Liver Anatomy and Perioperative Care, ii) Approach to Malignant Hepatic Disease, iii) Approach to Benign Hepatic Disease, iv) Technical Aspects of Liver Resections, and v) Liver Transplantation Over 350 illustrations Truly effective didactic text, with logical, clear explanations, giving readers a pleasant reading experience Commentary sections written by experts for specific surgical cases. Principles of Hepatic Surgery is a valuable reference for both novice hepatologists and practicing liver surgeons.

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