

Beating Heart Bypass Surgery And Minimally Invasive Conduit Harvesting Cardiosurgical Techniques Anesthesia Management

Cardiac Surgery So You're Having Heart Bypass Surgery Deep Sternal Wound Infections Minimized Cardiopulmonary Bypass Techniques and Technologies Principles of Pulmonary Protection in Heart Surgery Surgery and Its Alternatives Cardiac Anesthesia Let'S Stop "Killing" Our Children Randomized Clinical Trials of Nonpharmacological Treatments Essentials of Cardiac Anesthesia E-Book Kaplan's Cardiac Anesthesia E-Book Medical Nanotechnology and Nanomedicine Off-Pump Coronary Artery Bypass Surgery Atlas of Robotic Cardiac Surgery Animals and Medicine Medical Image Computing and Computer-Assisted Intervention -- MICCAI 2004 The Evolution of Cardiac Surgery Cardiac Surgery Heart Disease and the Surgical Patient Cardiology E-Book Electrophysiological Disorders of the Heart E-Book Minimally Invasive Cardiac Surgery Cardiac Surgery Directional Estimation for Robotic Beating Heart Surgery Current Therapy in Thoracic and Cardiovascular Surgery Advanced Therapy in Cardiac Surgery Off-Pump Coronary Artery Bypass Surgery Clinical Surgery E-Book Coronary Artery Disease Medical Image Computing and Computer-Assisted Intervention - MICCAI 2001 [Primary Angioplasty Essential Surgery E-Book Sabiston and Spencer's Surgery of the Chest E-Book Robotic Cardiac Surgery Aging, Heart Disease, and Its Management Beating

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Heart Bypass Surgery and Minimally Invasive Conduit Harvesting Atlas of Cardiac Surgical Techniques E-Book Off-Pump Coronary Artery Bypass Grafting Atrial Fibrillation after Cardiac Surgery Minimally Invasive Cardiac Surgery

Cardiac Surgery

Book Review Author Advocates Healthy Lifestyle and Disease Prevention to start from the Womb and dieting to begin in the Crib New Health Book, written in easy-to-understand laymans term, provides thought-provoking and valuable health reference designed to change lives of individuals and society as a whole through good pre-emptive and proactive social initiatives and more responsible parenting for healthy lifestyle and disease prevention, which the cardiac surgeon author says must start in the womb and safe dieting should begin in the crib, to maximize their full potential in achieving their goals. XLIBRIS - (PRWEB) August 29, 2011 What is the best strategy to prevent diseases? Cardiac Surgeon Emeritus in Northwest Indiana Dr. Philip S. Chua attempts to provide resolution to this issue as he presents Lets Stop Killing Our Children, a valuable, inspiring, and innovative 794-page health guide that focuses on disease prevention starting from ground zero, and highlights the fundamental obligation parents and society have in teaching children how to life a healthy lifestyle by setting good examples early on. This revolutionary concept puts the onus squarely on society, parents and

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guardians of young children, who are totally at the mercy of society and of these adults, whose good or bad examples, habits and behaviors will inevitably be emulated by the children. It is in the first five formative years of the children and up to age 12 when instilling proper discipline and behavioral modification are most effective, states this heart surgeon. Almost all diseases known to man are self-induced and are, therefore, preventable. Most of us seemed to have unwittingly programmed our mindset and behavior to a self-destruct and slow-suicide mode. This negative surrender and fatalistic attitude are what this book aims to change, Dr. Chua critically pointed out in his book. An international health advocate and writer, Dr. Philip S. Chua, in this book of information, philosophy and principles, poses this great challenge to society as a whole in his belief that most diseases known to man are self-induced through self-abuse. It is important that both society as a whole and parents play their essential role of doing what is right for the children, way before age 5 to save these young lives from avoidable morbidity and premature death as they grow to middle age and beyond. After all, says Dr. Chua, the race does not start in the middle. The author points out that autopsy findings on children, as young as 4-5 who were victims of accidents, already had evidence of arteriosclerosis (hardening of their arteries) which we see in adults. We must be doing something wrong. "Are we losing the war on diseases because we are starting late and lagging far behind in this race?" ponders the cardiac surgeon. Dr. Chua, in his book, strongly suggests for parents and society as a whole to practice this novel pre-emptive and proactive health concept even

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before conception to achieve a healthier family, a healthier citizenry, and thus a healthier nation. "Since, we have not really significantly succeeded in our war against many diseases over the past half a century, the medical community and society as a whole need to seriously re-evaluate of our current conventional strategy in dealing with health and disease prevention, if we are to contain, if not eradicate, the common diseases afflicting man around the world today, including hypertension, obesity, diabetes, heart disease, stroke, and even cancer," admonishes the author. This pre-emptive health strategy could forever change the role of parents and society in our quest for health, well-being, happiness, and longevity. This challenging and stimulating coffee-table book of wisdom is a must-read. Every home deserves one.

So You're Having Heart Bypass Surgery

"This book is the first complete history of the development of heart surgery. Its story ranges from the observations of the ancient Greeks through early efforts to repair heart wounds in the nineteenth century to the extraordinary advances of the present day. Noted heart surgeon Harris B. Shumacker has scoured the vast literature on heart surgery in many languages and has succeeded in untangling the complex strands of a fascinating story. An active and respected participant in the last half-century of this history, Shumacker brings to his narrative an experts insights and a wealth of first-hand experience." "As a backdrop for what is to come,

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Shumacker surveys the prehistory of modern heart surgery, but his story begins in earnest in the 1920s and 1930s, when the first attempts were made to operate on the heart and adjacent vessels to correct congenital malformations. He describes the early operations on the great vessels and surface of the heart; intracardiac manipulations upon the beating, functioning, and unsupported heart; and operations carried out within the opened heart." "With the meticulous care of a surgeon, Shumacker retraces the incremental growth in our knowledge of the human heart and its repair with clear discussions of each innovative procedure, both the successes and the failures. He pays special attention to clarifying the individual contributions of the many doctors and researchers throughout the world who have played a role in this still-developing story." "Shumacker concludes with the revolutionary developments of contemporary heart surgery: the heart-lung machine, deep hypothermia and circulatory arrest, cardiac support devices, heart transplants, and the artificial heart. Here is a comprehensive history and an important resource for the medical professional and the medical historian." --Book Jacket.

Deep Sternal Wound Infections

Provides a discussion of both surgical and alternative approaches to an array of medical issues, revealing the pros and cons of various anesthetic and surgical options and describing more than two hundred procedures.

Minimized Cardiopulmonary Bypass Techniques and Technologies

Get expert, step-by-step guidance on a wide variety of both open and interventional cardiac surgical techniques. Atlas of Cardiac Surgical Techniques, 2nd Edition, helps you expand your surgical repertoire and hone your skills with a vividly illustrated, easy-to-navigate text and pearls and pitfalls throughout. This revised atlas covers the surgical procedures you need to master, including minimally invasive techniques, robotic surgery, aortic dissection, and much more. Seven brand-new chapters cover Hybrid Coronary Revascularization, Aortic Valve Repair Techniques, Transcatheter Aortic Valve Replacement, Robotic Mitral Valve Surgery, Surgery for Hypertrophic Cardiomyopathy, Approaches and Techniques to Extra-Corporeal Membrane Oxygenation, and Pulmonary Endarterectomy. Multiple new contributing authors offer a fresh perspective in their areas of expertise. A consistent chapter format guides you quickly from surgical anatomy and preoperative considerations through operative steps and postoperative care. More than 400 full-color images, line drawings, and intraoperative photographs clearly depict the step-by-step progression of procedures.

Principles of Pulmonary Protection in Heart Surgery

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This book provides an in-depth insight into the various issues associated with off-pump coronary artery bypass grafting. This book is divided into three sections. Section 1 focuses on the outcomes of off-pump coronary artery bypass grafting while sections 2 & 3 address concerns and controversies associated with this revascularisation strategy in an evidence-based manner. This book stands out for its readability, conciseness and clear illustrations and offers a clear and didactic style, presenting information in the form of lists and tables for quick and easy reference. The editors and authors are recognised experts in off-pump surgery, and draw on their vast experience to provide a book that will serve not only as a basic manual for cardiac surgeons, both practising as well as in-training, but also as an invaluable compendium of readily understood information for cardiologists, anaesthetists, intensivists, nurses and general practitioners.

Surgery and Its Alternatives

Advanced Therapy in Cardiac Surgery - Second Edition This second edition of Advanced Therapy in Cardiac Surgery presents state-of-the-art techniques and an in-depth review of cardiac surgery from the leading authorities. Each of the 62 succinct chapters represents the personal treatment protocols of the experts. The Advanced

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Cardiac Anesthesia

Highly Commended, BMA Medical Book Awards 2014
The development of new techniques as well as the refinement of established procedures has led to great progress in cardiac surgery. Providing an ideal synopsis of the growth in this area, *Cardiac Surgery: Recent Advances and Techniques* systematically reviews all the new developments in cardiac surgery,

Let'S Stop "Killing" Our Children

Reviews the best therapies and surgical techniques available to provide quality care for the elderly cardiac patient and of those areas that require further research. The authors detail preventive therapies and the cardiovascular syndromes that disproportionately afflict the older individual, including arrhythmias (particularly atrial fibrillation), syncope, heart failure (particularly diastolic heart failure), and ischemic heart disease. They also delineate the surgical management of the heart patient with discussions of postoperative management and its complications and of specific surgical procedures such as coronary artery bypass grafting, valve surgery, pacemaker and defibrillators, and surgical management of heart failure.

Randomized Clinical Trials of Nonpharmacological Treatments

Over the past 75 years, advanced techniques and strategies have arisen in the field of myocardial protection. Meticulous trials, focusing on pulmonary protection during heart surgery requiring cardiopulmonary bypass (CPB), have been missing. This textbook is intended to serve as a useful tool to spread information on strategies for lung protection during heart surgery with CPB. Emphasis on pulmonary protection will be turned to lung perfusion as an adjunct for minimizing the deleterious effects of pulmonary ischemia-reperfusion injury in heart surgery. Many renowned authors have contributed by presenting their experience on lung perfusion in basic research and clinical trials. Furthermore, they have enlightened the quality of this textbook with new ideas, concepts, and future perspectives. The scope of this textbook is of interest to different professionals, such as cardiovascular surgeons, pulmonary surgeons, transplantation physicians, cardiothoracic anesthesiologists, intensive care physicians, cardiothoracic fellows, radiologists, basic sciences physicians, cardiologists, pulmonary medicine physicians, perfusionists, nurses, students, and researchers. This textbook has 7 sections, aimed at addressing general and specific aspects of pulmonary protection during heart surgery with CPB. The first section on general concepts provides information about anatomic, physiologic, histologic, molecular, and radiologic considerations regarding the lungs. The second section focuses on ischemia-reperfusion injury and is composed of several interesting chapters, addressing the basic science aspects

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of pulmonary protection, as well as experimental and clinical experiences from different heart surgery centers worldwide.

Essentials of Cardiac Anesthesia E-Book

Traditional cardiopulmonary bypass (CPB) techniques have suffered from a number of disadvantages including haemodilution, inflammation and post-operative bleeding. Minimised cardiopulmonary bypass techniques use developments in perfusion technology to significantly reduce foreign surface-blood interactions to make bypass simpler and safer. This important book reviews key developments and issues relating to this promising technology. Part one covers the broad range of CPB pathophysiology, including anticoagulant protocols, the impact of CPB circuit surfaces, optimal haemodilution levels, and the important issue of CPB-induced systemic inflammatory response syndrome. Part two focuses on the issues of the new equipment developed for mini-CPB, optimal myocardial protection protocols and CPB perfusate options. Part three discusses clinical issues, including patient selection, coronary and valve surgery protocols and, among others, paediatric patients. With its distinguished editors and international team of expert contributors, *Minimized cardiopulmonary bypass techniques and technologies* is a valuable reference for cardiac surgery teams and those researching this important technology. Covers a broad range of cardiopulmonary bypass (CPB) pathophysiology, including anticoagulant protocols, the impact of CPB circuit

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surfaces and optimal haemodilution levels Focuses on new equipment specially developed for minimized-CPB and myocardial protection protocols Discusses clinical issues, including patient selection

Kaplan's Cardiac Anesthesia E-Book

Cardiac complications are a leading cause of death after surgery. This all-inclusive guide examines the epidemiology, pathophysiology, diagnosis, and treatment of perioperative myocardial injury and infarction, and provides an expert assessment of the latest methods and strategies for the optimal care of these patients.

Medical Nanotechnology and Nanomedicine

Robotic Cardiac Surgery is a comprehensive guide to robotic/totally endoscopic cardiac surgery. The book is intended to provide in-depth information regarding the history of robotic surgical systems, their components and principles. It emphasizes patient selection, perioperative management, anesthesia considerations and management, operative techniques and management, postoperative care and results. Extensive, detailed photographs and illustrations of different kinds of robotic surgery are also included. It provides cardiac surgeons, cardiac anesthesiologists, and perfusionists with a comprehensive review of

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current robotic cardiac surgeries and related knowledge. Changqing Gao, MD, is a professor at the Department of Cardiovascular Surgery, PLA General Hospital, Beijing, China.

Off-Pump Coronary Artery Bypass Surgery

A comprehensive review by renowned authorities of the many exciting developments occurring across the rapidly emerging field of "minimally invasive" or "minimal access" cardiac surgery. The book's distinguished panel of contributors presents the interventional cardiologists perspective, spells out the key factors for success in beating-heart coronary bypass grafting through limited incisions, and surveys the various methods of harvesting the internal thoracic artery. Other topics treated include immobilization of the surgical field, minimal access valve and congenital surgery, alternative methods of anastomosis, and port-access coronary bypass grafting. Minimally Invasive Cardiac Surgery summarizes all the latest findings on the powerful new techniques, as well as the results, of minimally invasive coronary surgery, including valvular heart disease, congenital heart disease, and coronary revascularization.

Atlas of Robotic Cardiac Surgery

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Authored by the same stellar editors and contributors responsible for Kaplan's Cardiac Anesthesia, this title presents today's most essential clinical knowledge in cardiac anesthesia in a practical, user-friendly format. A manageable size and affordable price makes this an ideal purchase for every clinician who would like an economical yet dependable resource in cardiac anesthesia. Provides the key cardiac anesthesia information you need to know by authorities you trust. Uses a concise, user-friendly format that helps you locate the answers you need quickly. Features key points boxes in each chapter to help you quickly access the most crucial information. Includes annotated references that guide you to the most practical additional resources. Features a portable size and clinical emphasis that facilitates and enhances bedside patient care. Contains the authoritative guidance of larger reference books without the expense.

Animals and Medicine

Robotic surgery is currently devoid of adequate didactic material necessary to facilitate daily application in cardiothoracic surgical practice. This book represents the definitive atlas that will lead both the practicing and new cardiothoracic surgeons in these methods. It will define the operative pathway of each procedure, from beginning to end, for surgeons who wish to be a complete robotic cardiac surgeon and include hints and procedural pitfalls derived from the experiences of chapter contributors. The book will be illustrated with high quality illustrations and

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color photographs from surgical operations where appropriate. Leading surgeons have contributed to the book and provided sample illustrations for their respective chapters. Anesthetic and cardiopulmonary support preparation for each operation will be included and selected references will be provided to emphasize evidence-based outcomes.

Medical Image Computing and Computer-Assisted Intervention -- MICCAI 2004

The Evolution of Cardiac Surgery

With your heavy case load, you can't afford to waste time searching for answers. Cardiology, 3rd Edition, by Drs. Crawford, DiMarco, and Paulus, offers you just the practical, problem-based guidance you need to quickly overcome any clinical challenge. 8 color-coded sections cover the 8 major clinical syndromes of cardiovascular disease—each section a virtual "mini textbook" on its topic! 40 new chapters keep you up to date with the latest advances in the field, while more than 2,000 lavish, high-quality illustrations, color photographs, tables, and ECGs capture clinical manifestations as they present in practice. It's current, actionable information that you can put to work immediately for your patients! Offers a

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problem-based approach that integrates basic science, diagnostic investigations, and therapeutic management in one place for each cardiovascular disease so you can quickly find all of the actionable knowledge you need without flipping from one section to another. Features introductory bulleted highlights in each chapter that present the most pertinent information at a glance. Presents abundant algorithms to expedite clinical decision making. Includes more than 2,000 lavish, high-quality illustrations, color photographs, tables, and ECGs that capture clinical manifestations as they present in practice, and promote readability and retention. Includes 40 new chapters including Inherited Arrhythmia Syndromes, Implantable Cardioverter-Defibrillators and Cardiac Resynchronization Therapy in CHD, Management of the Cyanotic Patient with CHD, Special Problems for the Cardiology Consultant Dealing with Bariatric/Gastric Bypass — and many more — that equip you with all of the latest knowledge. Presents "Special Problem" sections—many new to this edition—that provide practical advice on problems that can be difficult to treat.

Cardiac Surgery

This concise and practical handbook covers the basics of pathophysiology, diagnosis, interdisciplinary surgical management, prevention and rehabilitation of patients with deep sternal wound infections and sternal osteomyelitis. All relevant aspects and surgical procedures are explained in an easily understandable way.

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Additionally special approaches and preventive measures are highlighted with regard to the perioperative handling as well as the rehabilitation possibilities. Through concise texts with numerous illustrations, the book is ideal for the practice and as a supplement to further studies. This book is suitable for all specialists who are involved into the treatment and diagnosis of sternal wound infections, particularly cardio-thoracic, thoracic, plastic, vascular surgeons, cardiologists, radiologists, and rehabilitation physicians.

Heart Disease and the Surgical Patient

Animals and Medicine: The Contribution of Animal Experiments to the Control of Disease offers a detailed, scholarly historical review of the critical role animal experiments have played in advancing medical knowledge. Laboratory animals have been essential to this progress, and the knowledge gained has saved countless lives—both human and animal. Unfortunately, those opposed to using animals in research have often employed doctored evidence to suggest that the practice has impeded medical progress. This volume presents the articles Jack Botting wrote for the *Research Defence Society News* from 1991 to 1996, papers which provided scientists with the information needed to rebut such claims. Collected, they can now reach a wider readership interested in understanding the part of animal experiments in the history of medicine—from the discovery of key vaccines to the advancement of research on a range of diseases, among them

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hypertension, kidney failure and cancer. This book is essential reading for anyone curious about the role of animal experimentation in the history of science from the nineteenth century to the present.

Cardiology E-Book

In the early days of cardiac surgery, but also in the following four decades, median sternotomy and cardiopulmonary bypass were nearly always included in cardiac surgical procedures. Less invasive surgical techniques were developed with the aim of reducing perioperative trauma without compromising the surgical result, and things became more complex for cardiac surgeons. They now often had to consider the surgical access of choice and whether cardiopulmonary bypass should be used or not. Since the mid 1990s, not only have several novel minimally invasive surgical techniques been presented, but also further refinements have been recommended from time to time. This work comes to fill a gap in the field of coronary artery bypass grafting and conduit harvesting in cardiac surgery, by gathering the mature version of such new, less invasive techniques combining safety, effectiveness, simplicity, sometimes even reducing procedural costs and that always for the patient's and for the surgeon's sake.

Electrophysiological Disorders of the Heart E-Book

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The 7th International Conference on Medical Imaging and Computer Assisted Intervention, MICCAI 2004, was held in Saint-Malo, Brittany, France at the "Palais du Grand Large" conference center, September 26-29, 2004. The p-
posaltohostMICCAI2004wasstronglyencouragedandsupportedbyIRISA, Rennes. IRISA is a publicly funded national research laboratory with a sta? of 370,including150full-timeresearchscientistsorteachingresearchscientistsand 115 postgraduate students. INRIA, the CNRS, and the University of Rennes 1 are all partners in this mixed research unit, and all three organizations were helpful in supporting MICCAI. MICCAI has become a premier international conference with in-
depth - pers on the multidisciplinary ?elds of medical image computing, comput-
assisted intervention and medical robotics. The conference brings together cl-
icians, biological scientists, computer scientists, engineers, physicists and other researchers and o?ers them a forum to exchange ideas in these exciting and rapidly growing ?elds. The impact of MICCAI increases each year and the quality and quantity of submitted papers this year was very impressive. We received a record 516 full submissions (8 pages in length) and 101 short communications (2 pages) from 36 di?erent countries and 5 continents (see ?gures below). All submissions were reviewed by up to 4 external reviewers from the Scienti?c Review C- mittee and a primary reviewer from the Program Committee. All reviews were then considered by the MICCAI 2004 Program Committee, resulting in the acceptance of 235 full papers and 33 short communications.

Minimally Invasive Cardiac Surgery

The previous edition won first Prize (Surgery category) at the BMA Awards 2005. The judges' comment: 'A comprehensive and attractively presented 4-colour textbook of surgery aimed primarily at medical students but also of use to junior doctors and surgical technicians. The book has two key features: firstly, it provides students with coverage of every aspect of surgery; secondly, it has been designed and written to be the 'surgical companion' to Kumar & Clark's Clinical Medicine. This new edition will also offer an online version to all purchasers of the book - the first surgical textbook in the UK to make an electronic version available.' A comprehensive account of surgery - students only need to buy one text Covers general issues such as wound healing and pain control in the first section. By grouping these issues into one section at the beginning, students are immediately given an overview of what makes surgery different A regional approach is adopted for the largest section - section 2 - this reflects the way in which surgeons talk about surgery to each other The third section covers surgical specialities - paediatrics, endocrinology, urology - and also includes specialities such as ophthalmology, ENT and orthopaedics. These are often omitted from competing books to save space The logical arrangement of the three sections makes the book easy to use and refer to in clinical practice The arrangement of contents is straightforward and easily understood Text boxes are used throughout to highlight and isolate important information Includes over 350 four-colour images and line

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drawings original to this book and greatly praised by students Also includes over 100 black and white and approximately 50 full-colour clinical photographs, X-rays and scans Designed to complement Kumar and Clark's highly successful Clinical Medicine textbook so that students can have 'matching' texts in these complementary areas Written by an expert team of contributors Your purchase of this book entitles you to online access to the text at no extra charge. This innovative web site offers you Access to the complete text and illustrations of this book. Integration links to bonus content in other Elsevier online titles. Content clipping for your handheld. An interactive community center with a wealth of additional resources. The more Elsevier titles you buy, the more resources you can access online! New edition of a prize-winning textbook. Completely revised throughout to reflect recent changes in surgical practice. New chapter on bariatric surgery for the treatment of morbidly obese patients. Covers the increasing use of minimally invasive surgical techniques, including robotic surgery. Emphasises the increasing impact of multimodality therapy, in particular for the treatment of cancer. Covers improvements in imaging technology and impact on surgical decision making.

Cardiac Surgery

Through seven successful editions, Sabiston & Spencer Surgery of the Chest has set the standard in cardiothoracic surgery references. Now, the new 8th Edition,

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edited by Frank W. Sellke, MD, Pedro J. del Nido, MD, and Scott J. Swanson, MD, carries on this tradition with updated coverage of today's essential clinical knowledge from leaders worldwide. Guidance divided into three major sections—Adult Cardiac Surgery, Congenital Heart Surgery, and Thoracic Surgery—lets you quickly find what you need, while new and revised chapters reflect all of the important changes within this rapidly evolving specialty. Expert Consult functionality—new to this edition—enables you to access the complete contents of the 2-volume set from anyplace with an Internet connection for convenient consultation where and when you need it. This is an ideal source for mastering all of the most important current knowledge and techniques in cardiac and thoracic surgery—whether for specialty board review or day-to-day practice. Features short, focused chapters that help you find exactly what you need. Presents the work of international contributors who offer a global view of the entire specialty. Covers thoracic surgery as well as adult and pediatric cardiac surgery for a practical and powerful single source. Includes nearly 1,100 illustrations that help to clarify key concepts. Features online access to the complete contents of the 2-volume text at expertconsult.com for convenient anytime, anywhere reference. Covers the hottest topics shaping today's practice, including the latest theory and surgical techniques for mitral valve disease, advances in the treatment of congenital heart disease, minimally invasive surgical approaches to the treatment of adult and congenital cardiac disease and thoracic disease, stent grafting for aortic disease, and cell-based therapies. Your purchase entitles you to access the

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Directional Estimation for Robotic Beating Heart Surgery

Essential Surgery is a comprehensive and highly illustrated textbook suitable for both clinical medical students as well junior surgical trainees, preparing for postgraduate qualifications in surgery such as the MRCS. Covering general surgery, trauma, orthopaedics, vascular surgery, paediatric surgery, cardiothoracic surgery and urology, it incorporates appropriate levels of basic science throughout. The book is ideal for modern clinical courses as well as being a practical manual for readers at more advanced levels. Its main aim is to stimulate the reader to a greater enjoyment and understanding of the practice of surgery. Essential Surgery incorporates a problem-solving approach wherever possible, emphasising how diagnoses are made and why particular treatments are used. The pathophysiological basis of surgical diseases is discussed in relation to their management, acting as a bridge between basic medical sciences and clinical problems. The uniformity of the writing style and the clarity of elucidation will encourage continued reading, while the emphasis on the principles of surgery will enable a real understanding of the subject matter. The book's extensive use of

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original illustrations, boxes and tables emphasises important concepts and will aid revision. The principles of operative surgery and perioperative care are explained together with outlines of common operations, enabling students and trainee surgeons to properly understand procedures and to participate intelligently in the operating department. A major revision of the text has taken full account of the progressive evolution of surgery and includes new concepts that have advanced medical understanding. New topics have been added to ensure the book's contents match the curriculum of the UK Intercollegiate MRCS examination, including patient safety, surgical ethics, communication, consent, clinical audit and principles of research. The broad experience of surgical teaching and training of two new authors has brought a fresh perspective on the book's contents and its presentation. New consensus guidelines for managing common disorders have been incorporated where appropriate.

Current Therapy in Thoracic and Cardiovascular Surgery

In 1962, Thomas Kuhne coined the term "paradigm shift" while arguing that human knowledge advances by quantum leaps with interspersed smaller steps. Preparation for the major advance is generally not a concerted effort by thought leaders. Rather, a few (or one) visionaries gain insights into a process and are able to definitely demonstrate the accuracy of their worldview. Often, the epiphany does not occur during the intellectual lifetime of the discoverers. Medicine has had

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numerous such “paradigm shifts” including the compelling reworking of Galen’s concepts of the body. Of note, the scientific world of the time explained the new views by arguing that the human body must have changed between the time of ancient Greece and modern Europe. The inauguration of cardiac surgery itself required profound shifts in medicine’s view of physiology. Yet, over the ensuing 40 years, the field was fine tuned so we could provide greater than 95% success rates in elective surgery with low cost and short hospital stays. In some parts of the world, the procedures were viewed as commodities and prices dropped as providers were unable to differentiate the quality of their work. As patients and their physicians became more demanding, the desire to make the procedures “minimally invasive” grew. In effect, what we were really searching for was a life saving procedure that also preserved quality of life. In short, “minimally invasive” has really been a code phrase for procedures that disrupt our quality of life the least.

Advanced Therapy in Cardiac Surgery

Nonpharmacological treatments include a wide variety of treatments such as surgery, technical procedures, implantable and non-implantable devices, rehabilitation, psychotherapy, and behavioral interventions. Unlike pharmacological treatments, these have no specific requirements for approval. Consequently, they can be widely proposed in clinical practice but may not have

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been adequately evaluated. This situation is an important barrier for the evaluation of the beneficial effects of these treatments and the conduct of clinical trials. Randomized Clinical Trials of Nonpharmacologic Treatments focuses on the methods for assessing nonpharmacological treatments, highlighting specific issues and trial design. Features: Chapters written by international experts in the field Highlights specific issues in assessing nonpharmacological treatments in trials including: how to overcome the difficulties of blinding patients, care providers, and outcome assessors the complexity of the intervention, the learning curve, and the clustering effect placebos that can be used issues of assessing harm and assessing the applicability of trials Presents a variety of trial designs for nonpharmacological treatments—including cluster randomized controlled trials, expertise-based trials, pragmatic trials, and nonrandomized trials. Provides several examples of the planning, conduct, analyses, and reporting of trials in different fields, including surgery, technical interventions, medical devices, rehabilitation, psychotherapy, and behavioral interventions. Providing practical examples that underline these issues and solutions, this book is one of the first to exclusively explore this topic, discussing various categories of treatments, from surgical procedures to psychotherapy.

Off-Pump Coronary Artery Bypass Surgery

This book discusses the principles, applications, benefits, and pitfalls of off-pump

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coronary artery bypass (OPCAB) surgery, and provides information on the surgical strategies adopted and the anesthetic management considerations for patient undergoing OPCAB surgery.

Clinical Surgery E-Book

The thoroughly updated Second Edition of this highly acclaimed text provides a concise yet comprehensive reference on the clinical and scientific principles of cardiovascular and thoracic anesthesia. The foremost authorities in cardiac anesthesia cover topics particular to this specialized field, such as extracorporeal circulation, transesophageal echocardiography, the physiology and pharmacology of anticoagulation, cardiac catheterization, invasive cardiology, and congenital heart disease. Ideal for residents, fellows, and practicing anesthesiologists, this important text provides comprehensive, practical guidance for all aspects of cardiac anesthesia.

Coronary Artery Disease

This textbook provides a succinct overview of cardiac surgery, with key concepts being emphasized throughout. An abundance of illustrations, intra-operative photographs, tables as well as information boxes, aids the reader to visualise,

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grasp and retain difficult concepts. The inclusion of evidence-based approaches to the management of a range of cardiac surgical conditions equips the reader with an understanding of how to overcome a variety of potentially tough clinical challenges. Concise Cardiac Surgery: A Complete Guide comprehensively covers a range of techniques used in cardiac surgery. It is therefore, an ideal resource for the trainee and practising cardiac surgeon seeking a practically focused text detailing how to apply the latest techniques and evidence-based approaches in their day-to-day practice.

Medical Image Computing and Computer-Assisted Intervention - MICCAI 2001[

This book is open access under a CC BY 4.0 license. This quick-reference handbook offers a concise and practical review of key aspects of the treatment of ST-segment elevation myocardial infarction (STEMI) in the era of primary percutaneous coronary intervention (PPCI). In the context of STEMI, PPCI is the preferred mode of emergency revascularization. Access to PPCI is rapidly increasing and is now routinely practiced in both general and specialist hospitals and there has been a recent emphasis on developing STEMI networks to enhance and expedite the referral pathway. This coupled with concurrent developments to enhance the safety and efficacy of the PPCI procedure has heralded an era where

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STEMI interventions are increasingly considered an important subspecialty within interventional cardiology. Written by leading cardiologists who have been instrumental in the adoption of PPCI in their respective institutions, the book provides junior and senior cardiologists alike with insightful and thought-provoking tips and tricks to enhance the success of PPCI procedures, which may in turn translate into direct improvements in outcomes. The book is also relevant for healthcare providers and emergency department physicians.

Primary Angioplasty

Cardiac surgery is performed on hundreds of thousands of patients a year, and can have an important beneficial impact on the outcomes of patients with coronary and valvular heart diseases. Despite the favorable recovery of most patients, some will have their post-operative period interrupted by the development of atrial fibrillation, with a host of potential complications including stroke. High risk subgroups may develop atrial fibrillation in more than half of cases, and often despite aggressive prophylactic measures. Treatment of atrial fibrillation and its aftermath can also add days to the hospital stay of the cardiac surgical patient. In an era of aggressive cost cutting and optimization of utilization of health care resources, the financial impact of this arrhythmic complication may be enormous. Experimental studies have led to a greater understanding of the mechanism of atrial fibrillation and potential precipitating factors in the cardiac surgical patient.

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Prophylactic efforts with beta-blockers, antiarrhythmic drugs and atrial pacing are being used, or are being investigated in clinical trials. New methods of achieving prompt cardioversion with minimal disruption of patient care, and prevention of the thromboembolic complications of atrial fibrillation, are also important therapeutic initiatives. This text is designed to aid health care professionals in the treatment of their patients in the recovery period after cardiac surgery, and to instigate additional research efforts to limit the occurrence of, and the complications following, this tenacious postoperative arrhythmia.

Essential Surgery E-Book

Considering the fluid nature of nano breakthroughs—and the delicate balance between benefits and consequences as they apply to medicine—readers at all levels require a practical, understandable base of information about these developments to take greatest advantage of them. Medical Nanotechnology and Nanomedicine meets that need by introducing non-experts to nanomedicine and its evolving organizational infrastructure. This practical reference investigates the impact of nanotechnology on applications in medicine and biomedical sciences, and the broader societal and economic effects. Eschewing technological details, it focuses on enhancing awareness of the business, regulatory, and administrative aspects of medical applications. It gives readers a critical, balanced, and realistic evaluation of existing nanomedicine developments and future prospects—an ideal

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foundation upon which to plan and make decisions. Covers the use of nanotechnology in medical applications including imaging, diagnosis and monitoring, drug delivery systems, surgery, tissue regeneration, and prosthetics Part of the Perspectives in Nanotechnology series—which contains broader coverage of the societal implications of nanotechnology—this book can be used as a standalone reference. Organized by historical perspective, current status, and future prospects, this powerful book: Explores background, definitions and terms, and recent trends and forces in nanomedicine Surveys the landscape of nanomedicine in government, academia, and the private sector Reviews projected future directions, capabilities, sustainability, and equity of nanomedicine, and choices to be made regarding its use Includes graphical illustrations, references, and keywords to reinforce concepts and aid further research In its assessment of alternative and sometimes conflicting concepts proposed for the application of nanotechnology to medicine, this book surveys major initiatives and the work of leading labs and innovators. It uses informative examples and case summaries to illustrate proven accomplishments and imagined possibilities in research and development.

Sabiston and Spencer's Surgery of the Chest E-Book

This book constitutes the refereed proceedings of the 4th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2001,

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held in Utrecht, The Netherlands, in October 2001. The 122 revised papers and 136 posters presented were carefully reviewed and selected from a total of 338 submissions. The book offers topical sections on image-guided surgery; shape analysis, segmentation, computer-aided diagnosis; registration; simulation, planning and modeling; visualization; quantitative image analysis; medical robotics and devices; visualization and augmented reality; and time series analysis.

Robotic Cardiac Surgery

More than 200 noted authorities discuss their views on diagnosis, treatment, and procedures, with advice on everything from assessment and imaging through incisions, anesthesia, and perioperative care issues--including cardiac pacing in adults and children, and the cardiac surgery "fast track." It is packed with "high-yield" information that helps the user to access needed knowledge in the least amount of time.

Aging, Heart Disease, and Its Management

This book discusses the principles, applications, benefits, and pitfalls of off-pump coronary artery bypass (OPCAB) surgery, and provides information on the surgical strategies adopted and the anesthetic management considerations for patient

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undergoing OPCAB surgery.

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Atlas of Cardiac Surgical Techniques E-Book

Off-Pump Coronary Artery Bypass Grafting

Optimize perioperative outcomes with Kaplan's Cardiac Anesthesia! Dr. Joel L. Kaplan and a host of other authorities help you make the best use of the latest techniques and navigate your toughest clinical challenges. Whether you are administering anesthesia to cardiac surgery patients or to cardiac patients undergoing non-cardiac surgery, you'll have the guidance you need to avoid complications and ensure maximum patient safety. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices. Update your understanding of cardiovascular and coronary physiology, and the latest advances in molecular biology and inflammatory response mechanisms. Master the

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newest approaches to perioperative assessment and management, including state-of-the-art diagnostic techniques. Tap into the latest knowledge about 2D and 3D transesophageal echocardiography, anesthesia delivery for minimally invasive/robotic cardiac surgery, assist devices and artificial hearts, cardiac pacing, cardiac resynchronization therapy, ablation techniques, and more. Access the complete contents online at Expert Consult, plus additional online-only features including an ECG atlas videos that demonstrate 2-D and 3-D TEE techniques in real time and an Annual Year End Highlight from the Journal of Cardiovascular Anesthesia that's posted each February. Clearly visualize techniques with over 800 full-color illustrations.

Atrial Fibrillation after Cardiac Surgery

Coronary artery atherosclerosis is the most common cardiac pathology, which is the primary cause of cardiac mortality. Coronary artery stenosis usually involves the proximal portion of the larger epicardial coronary arteries, but diffuse coronary artery disease is also not rare. Most of the patients with/without several comorbidities have asymptomatic atherosclerotic lesions in the coronary territory, and hence early assessment of coronary artery pathology is of utmost importance. Since early surgical intervention is superior to percutaneous interventions, coronary artery bypass grafting is the first choice for the treatment of coronary artery disease. Coronary revascularization can be performed with different

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approaches according to the patients risk factors. Preventive treatment of coronary artery disease should be the basic strategy for a healthy system.

Minimally Invasive Cardiac Surgery

The new edition of Electrophysiological Disorders of the Heart helps you diagnose and treat a full range of heart rhythm disorders using today's latest technologies and therapies. It provides practical, hands-on coverage of hot topics such as pediatric EP, imaging, echocardiography-guided EP procedures, regenerative therapies, cardiac pacing, and more. Now available in a new full-color format, the title also includes easy online access at www.expertconsult.com. Discover new ways to treat and manage the full range of heart rhythm disorders with content focused on common clinical features, diagnosis, and management. Review expert management strategies to help you handle complex patient problems. Stay current with the latest molecular and technical advances as well as new treatment options implemented over the last few years. Use the latest technologies and devices to accurately diagnose and manage heart rhythm disorders. Consult new and expanded coverage of regenerative therapies, echo-guided procedures, cardiac pacing, and CRT, as well as a new section on pediatric electrophysiology and imaging. Enjoy improved visual guidance with many new full-color images. Log on to www.expertconsult.com to easily search the complete contents online and access a downloadable image library.

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