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Cardiac Electrophysiology: From Cell to Bedside E-Book-Douglas P. Zipes 2017-05-13 Rapid advancements in cardiac electrophysiology require today’s health care scientists and practitioners to stay up to date with new information both at the bench and at the bedside. The fully revised 7th Edition of Cardiac Electrophysiology: From Cell to Bedside, by Drs. Douglas Zipes, Jose Jalife, and William Stevenson, provides the comprehensive, multidisciplinary coverage you need, including the underlying basic science and the latest clinical advances in the field. An attractive full-color design features color photos, tables, flow charts, ECGs, and more. All chapters have been significantly revised and updated by global leaders in the field, including 19 new chapters covering both basic and clinical topics. New topics include advances in basic science as well as recent clinical technology, such as leadless pacemakers; catheter ablation as a new class I recommendation for atrial fibrillation after failed medical therapy; current cardiac drugs and techniques; and a new video library covering topics that range from basic mapping (for the researcher) to clinical use (implantations). Each chapter is packed with the latest information necessary for optimal basic research as well as patient care, and additional figures, tables, and videos are readily available online. New editor William G. Stevenson, highly regarded in the EP community, brings a fresh perspective to this award-winning text.
Cardiac Electrophysiology: from Cell to Bedside-Douglas P. Zipes 2017-07-20 Rapid advancements in cardiac electrophysiology require today's health care scientists and practitioners to stay up to date with new information both at the bench and at the bedside. The fully revised 7th Edition of Cardiac Electrophysiology: From Cell to Bedside, by Drs. Douglas Zipes, Jose Jalife, and William Stevenson, provides the comprehensive, multidisciplinary coverage you need, including the underlying basic science and the latest clinical advances in the field. An attractive full-color design features color photos, tables, flow charts, ECGs, and more. All chapters have been significantly revised and updated by global leaders in the field, including 19 new chapters covering both basic and clinical topics. New topics include advances in basic science as well as recent clinical technology, such as leadless pacemakers; catheter ablation as a new class I recommendation for atrial fibrillation after failed medical therapy; current cardiac drugs and techniques; and a new video library covering topics that range from basic mapping (for the researcher) to clinical use (implantations). Each chapter is packed with the latest information necessary for optimal basic research as well as patient care, and additional figures, tables, and videos are readily available online. New editor William G. Stevenson, highly regarded in the EP community, brings a fresh perspective to this award-winning text. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, images, videos (including video updates), glossary, and references from the book on a variety of devices.
Cardiac Electrophysiology-Douglas P. Zipes 1995 This reference provides information on cardiac electrophysiology. Coverage ranges from basic reports on currents and channels, through theoretical and experimental bases of cardiac electrical activity, to clinical understanding of mechanisms of arrhythmias.
Electrocardiography of Arrhythmias-Mithilesh K. Das 2012 Electrocardiography of Arrhythmias: A Comprehensive Review equips you with the core knowledge and clinical competencies you need to accurately interpret electrocardiograms (ECG) and ace the ECG part of cardiology boards or the ABIM ICE ECG certifying exam. Co-written by world-renowned cardiologists Mithilesh K. Das and Douglas P. Zipes, this companion study guide to Cardiac Electrophysiology: From Cell to Bedside offers a concise yet definitive review of electrocardiography, complete with online access to the complete text and image collection at www.expertconsult.com, making this is the perfect review and exam prep tool. Obtain a realistic simulation of the actual exam experience. Each ECG is accompanied by a brief clinical history in board format. Review a full range of ECG images - from simple to complex - reflecting both common and rare conditions. Get the most from your board or certification prep by pairing this review with its parent text, Cardiac Electrophysiology: From Cell to Bedside, for detailed explanations and an enhanced learning experience. Take it with you! Access the fully searchable, complete text and image collection from any computer or mobile device at expertconsult.com Be prepared for the ECG section of cardiology boards or the ABIM ICE ECG certifying exam with this definitive review resource
Cardiac Electrophysiology Methods and Models-Daniel C. Sigg 2010-09-11 Cardiovascular disease is the major cause of mortality and morbidity in the Western Hemisphere. While significant progress has been made in treating a major sub-category of cardiac disease, arrhythmias, significant unmet needs remain. In particular, every day, thousands of patients die because of arrhythmias in the US alone, and atrial fibrillation is the most common arrhythmia affecting millions of patients in the US alone at a given time. Therefore, there is a public need to continue to develop new and better therapies for arrhythmias. Accordingly, an ever increasing number of biomedical, pharmaceutical, and medical personnel is interested in studying various aspects of arrhythmias at a basic, translational, and applied level, both in industry (ie Biotech, Pharmaceutical and device), and in academia. Not only has our overall understanding of molecular bases of disease dramatically increased, but so has the number of available and emerging molecular, pharmacological or device treatment based therapies. This practical, state-of-the art handbook will summarize and review key research methods and protocols, their advantages and pitfalls, with a focus on practical implementation, and collaborative cross-functional research. The volume will include visual and easy-to-use graphics, bulleted summaries, boxed summary paragraphs, links to reference websites, equipment manufacturers where appropriate, photographs of typical experimental setups and so forth, to keep this book very focused on practical methods and implementation, and yet, provide enough theory that the principles are clearly understood and can be easily applied.
Cardiac Electrophysiology: from Cell to Bedside-Douglas P. Zipes 2013-10-25 Cardiac Electrophysiology: From Cell to Bedside puts the latest knowledge in this subspecialty at your fingertips, giving you a well-rounded, expert grasp of every cardiac electrophysiology issue that affects your patient management. Drs. Zipes, Jalife, and a host of other world leaders in cardiac electrophysiology use a comprehensive, multidisciplinary approach to guide you through all of the most recent cardiac drugs, techniques, and technologies. Get well-rounded, expert views of every cardiac electrophysiology issue that affects your patient management from preeminent authorities in cardiology, physiology, pharmacology, pediatrics, biophysics, pathology, cardiothoracic surgery, and biomedical engineering from around the world. Visually grasp and easily absorb complex concepts through an attractive full-color design featuring color photos, tables, flow charts, ECGs, and more! Integrate the latest scientific understanding of arrhythmias with the newest clinical applications, to select the right treatment and management options for each patient. Stay current on the latest advancements and developments with sweeping updates and 52 NEW chapters - written by many new authors - on some of the hottest cardiology topics, such as new technologies for the study of the molecular structure of ion channels, molecular genetics, and the development of new imaging, mapping and ablation techniques. Get expert advice from Dr. Douglas P. Zipes - a leading authority in electrophysiology and editor of Braunwald's Heart Disease and the Heart Rhythm Journal - and Dr. Jose Jalife - a world-renowned leader and researcher in basic and translational cardiac electrophysiology. Access the full text online at Expert Consult, including supplemental text, figures, tables, and video clips. Your purchase entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If the next edition is published less than one year after your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should online access to the web site be discontinued.
Josephson's Clinical Cardiac Electrophysiology-Mark E. Josephson 2015-08-10 Turn to this updated, classic text for a thorough understanding of the mechanisms of cardiac arrhythmias and the therapeutic interventions used to treat them. Josephson’s Clinical Cardiac Electrophysiology, 5th Edition delivers Dr. Mark Josephson’s unparalleled guidance on the electrophysiologic methodology required to define the mechanism and site of origin of arrhythmias – enabling you to choose the safest and most effective therapy for each patient. Features: Get comprehensive coverage of mechanisms, clinical implications, and limitations of current therapeutic interventions, including drugs, and catheter and surgical ablation. Gain a better visual understanding thanks to more than 1,100 illustrations (over 100 are new!), an increased number of 3-D color anatomical mapping images, ECG examples, photographs of equipment, and procedural diagrams. Stay up to date with information on new technologies of ablation and pitfalls of interpreting data; innovative new catheters; new drug information; and new tables summarizing SVT and VT criteria. Benefit from Dr. Josephson’s decades of experience as “the father of clinical cardiac electrophysiology,” and learn from his proven approaches and methods in this challenging area. View procedural videos and ECG tracings in motion in the accompanied eBook.
Handbook of Cardiac Electrophysiology-Francis D. Murgatroyd 2002 Handbook of Cardiac Electrophysiology provides a comprehensive introductory-level guide to invasive cardiac EP studies. Its focus is to enable the reader to understand and interpret the recording and stimulation techniques used during an EP study. The primary emphasis is on tachyarrhythmia diagnosis, but the book also includes bradycardias, the principles of catheter ablation and new mapping techniques. The main concepts are explained diagrammatically in a 4 colour format with clinical multichannel intracardiac recordings being used to illustrate the concepts discussed. The book provides sufficient practical information to enable the reader to plan an EP study and interpret the intracardiac recordings of most common tachycardias.
Mathematical Cardiac Electrophysiology-Piero Colli Franzone 2014-10-30 This book covers the main mathematical and numerical models in computational electrocardiology, ranging from microscopic membrane models of cardiac ionic channels to macroscopic bidomain, monodomain, eikonal models and cardiac source representations. These advanced multiscale and nonlinear models describe the cardiac bioelectrical activity from the cell level to the body surface and are employed in both the direct and inverse problems of electrocardiology. The book also covers advanced numerical techniques needed to efficiently carry out large-scale cardiac simulations, including time and space discretizations, decoupling and operator splitting techniques, parallel finite element solvers. These techniques are employed in 3D cardiac simulations illustrating the excitation mechanisms, the anisotropic effects on excitation and repolarization wavefronts, the morphology of electrograms in normal and pathological tissue and some reentry phenomena. The overall aim of the book is to present rigorously the mathematical and numerical foundations of computational electrocardiology, illustrating the current research developments in this fast-growing field lying at the intersection of mathematical physiology, bioengineering and computational biomedicine. This book is addressed to graduate student and researchers in the field of applied mathematics, scientific computing, bioengineering, electrophysiology and cardiology.
Guide to Canine and Feline Electrocardiography-Ruth Willis 2018-06-29 Guide to Canine and Feline Electrocardiography offers a comprehensive and readable guide to the diagnosis and treatment of abnormal heart rhythms in cats and dogs. Covers all aspects of electrocardiography, from basics to advanced concepts of interest to specialists Explains how to obtain high-quality electrocardiograms Offers expert insight and guidance on the diagnosis and treatment of simple and complex arrhythmias alike Features numerous case examples, with electrocardiograms and Holter monitor recordings Shows the characteristics of normal and abnormal heart rhythms in dogs and cats Includes access to a website with self-assessment questions and the appendices and figures from the book
Cardiac Cellular Electrophysiology-Edward Carmeliet 2012-12-06 Cardiac Cellular Electrophysiology is intended for the clinical cardiologist who wishes to refresh or deepen his understanding of the cellular basis of cardiac electrophysiology, for researchers interested in the basis of the electrical activity of the heart, such as clinical investigators, physiologists or pharmacologists, for teachers in physiology, pharmacology and other biomedical studies, and for medical students from graduate to postgraduate level. Cardiac Cellular Electrophysiology starts with a primer of basic electrophysiology, the cardiac action potential and the physiological basis of the electrocardiogram. Our second aim after having introduced the basic concepts was to continue with giving an overview of the properties of the most important ionic currents in the heart, and to treat their modulation, in order to deal with the mechanisms underlying cardiac ischaemia, arrhythmias and remodelling. Edward Carmeliet and Johan Vereecke, Katholieke University Leuven, Belgium, have collaborated for over 30 years in cardiac electrophysiology research. Their studies include the genesis of the normal action potential, its changes in ischaemia, the effect of drugs, and the mechanism of arrhythmias, using techniques from the classic potential registration with intracellular microelectrodes to whole cell clamp and single channel measurements.
Decoding Cardiac Electrophysiology-Afzal Sohaib 2019-11-09 This book provides a concise overview of cardiac electrophysiology for cardiologists who are not electrophysiologists and for allied cardiovascular professionals, cardiology registrars and fellows who are new to the field. It familiarises them with the main procedures performed in the electrophysiology laboratory. Emphasis is placed on helping the reader develop a core understanding of how data is collected and interpreted in the electrophysiology laboratory, and how this is used to guide ablation for the commonest arrhythmias including AV nodal re-entry tachycardia, accessory pathways, atrial fibrillation and ventricular arrhythmias. Decoding Cardiac Electrophysiology: Understanding the Techniques and Defining the Jargon will translate some of the technical terminology and data frequently used by electrophysiologists into terms and concepts familiar to the wider cardiovascular community. This includes the interpretation of electrograms and 3D electro-anatomical maps of common arrhythmias. Accordingly, it offers a valuable resource for all non-electrophysiologists seeking a guide to the topic and for electrophysiology trainees establishing their core knowledge and skills in the field. The aim is that this should be the first book anyone new to the field should choose to read.
Clinical Cardiac Electrophysiology-Mark E. Josephson 2002 The gold standard in electrophysiology, Dr. Josephson's book brings to light current relevant practices aimed at medical internists, clinical cardiologists, and electrophysiologists, emphasizing the capabilities and limitations of clinical cardiac electrophysiology techniques. Thoroughly revised, the Third Edition includes increased coverage of catheter ablation and the latest information on new catheters and computers that measure electrical activity in the heart. Full-color heart maps and illustrations of electrophysiologic concepts help clarify the text. A Brandon-Hill recommended title.
Basic Cardiac Electrophysiology for the Clinician-Jose Jalife 2011-08-24 This book translates fundamental knowledge in basic cardiac electrophysiology from the bench to the bedside. Revised and updated for its second edition, the text offers new coverage of the molecular mechanisms of ion channel behavior and its regulation, complex arrhythmias, and the broadening roles of devices and ablation. Clear, straightforward explanations are illustrated by plentiful diagrams to make the material accessible to the non-specialist.
Cardiac Electrophysiology Methods and Models-Daniel C. Sigg 2010-09-11 Cardiovascular disease is the major cause of mortality and morbidity in the Western Hemisphere. While significant progress has been made in treating a major sub-category of cardiac disease, arrhythmias, significant unmet needs remain. In particular, every day, thousands of patients die because of arrhythmias in the US alone, and atrial fibrillation is the most common arrhythmia affecting millions of patients in the US alone at a given time. Therefore, there is a public need to continue to develop new and better therapies for arrhythmias. Accordingly, an ever increasing number of biomedical, pharmaceutical, and medical personnel is interested in studying various aspects of arrhythmias at a basic, translational, and applied level, both in industry (ie Biotech, Pharmaceutical and device), and in academia. Not only has our overall understanding of molecular bases of disease dramatically increased, but so has the number of available and emerging molecular, pharmacological or device treatment based therapies. This practical, state-of-the art handbook will summarize and review key research methods and protocols, their advantages and pitfalls, with a focus on practical implementation, and collaborative cross-functional research. The volume will include visual and easy-to-use graphics, bulleted summaries, boxed summary paragraphs, links to reference websites, equipment manufacturers where appropriate, photographs of typical experimental setups and so forth, to keep this book very focused on practical methods and implementation, and yet, provide enough theory that the principles are clearly understood and can be easily applied.
Handbook of Cardiac Electrophysiology-Andrea Natale 2007-05-30 The first practical, user-friendly guide to the theory and practice of a routinely used technique, this new manual provides the specialist in training with a thorough grounding in the equipment, procedures, and clinical findings with which clinicians need to be familiar. Conceived as an alternative to the large and expensive texts aimed at specialists, the handbook is divided into two sections, which present: a review of the main kinds of arrhythmia, with illustrations of typical ECG findings supported where appropriate by correlative imaging the principal diagnostic and therapeutic procedures, including implantation of pacemakers, resynchronization therapy, use and placement of catheters and ablation techniques Providing practical guidance on clinical applications, and illustrated with numerous graphics, checklists and flowcharts to enable readers to locate information quickly and easily, Handbook of Cardiac Electrophysiology is an accessible resource covering a widespread, but complex technology.
Sex and Cardiac Electrophysiology-Marek Malik 2020-07-11 Sex and Cardiac Electrophysiology: Differences in Cardiac Electrical Disorders Between Men and Women is a comprehensive investigation into all aspects of sex differences in cardiac electrophysiology. As there are substantial differences between female and male patients in physiology, pathology triggering factors, disease progression, clinical approaches and treatment outcome, this book provides a comprehensive examination. In cardiology, the differences between women and men are more recognized, hence this title summarizes these important differences, providing the essential information needed for clinical specialists and researchers involved in the design and implementation of clinical studies. Explores topics ranging from the physiologic differences between women and men to the differences in clinical handling of arrhythmic disorders between female and male patients Provides sex differences in cardiac electrophysiology in separate chapters Covers the sex differences of cardiac electrical disorders, providing insights beyond cardiac metabolic syndrome, hypertension, atherogenesis and heart failure
Mayo Clinic Cardiology-Joseph G. Murphy 2012-12-06 Organized to present a comprehensive overview of the field of cardiology in an accessible, reader-friendly format that can be covered in about 12 months, this new edition contains roughly 50% new material, the cardiac pharmacology section has been completely reworked, cardiovascular trials have been included, and the entire book has been updated to reflect current practice guidelines and recent developments. The book is peppered throughout with numerous tables and clinical pearls that aid the student, as well as the teacher, to remain focused.
Fogoros' Electrophysiologic Testing-Richard N. Fogoros, MD 2017-11-06 Preceded by Electrophysiologic testing / Richard N. Fogoros. 5th ed. 2012.
Case Studies in Clinical Cardiac Electrophysiology E-Book-John M. Miller 2016-12-21 Keeping up with the use of new technologies in cardiology is becoming increasingly challenging. Case Studies in Clinical Cardiac Electrophysiology

helps to bridge the gap between knowledge and application with 28 cases spanning both common and uncommon arrhythmias and ablation scenarios, each of which includes the clinical presentation, baseline ECG, ECG during arrhythmia, stepwise electrophysiologic diagnostic maneuvers and some of their pitfalls, and optimal therapy. Includes 28 cases spanning the spectrum of what an electrophysiologist is likely to see in practice. Shows the correct way of conducting procedures, as well as "detours" that an unwary practitioner may take: misdiagnoses and why they are wrong; incorrect therapeutic choices and why these may be not only unsuccessful but even harmful. Encourages you to read and interpret the ECGs, mapping diagrams, and other diagnostic information before revealing the expert opinion or actual results of each case. Summarizes the key learning points in each case. Discusses potential procedural complications, including anticipation, avoidance, recognition, and response and resolution. Covers complex ablations (atrial fibrillation, ventricular tachycardia) as well as prior failed ablations.
Atrial Fibrillation-Jong-Il Choi 2012-01-11 Atrial Fibrillation-Basic Research and Clinical Applications is designed to provide a comprehensive review and to introduce outstanding and novel researches. This book contains 22 polished chapters and consists of five sections: 1. Basic mechanisms of initiation and maintenance of atrial fibrillation and its pathophysiology, 2. Mapping of atrial fibrillation and novel methods of signal detection. 3. Clinical prognostic predictors of atrial fibrillation and remodeling, 4. Systemic reviews of catheter-based/surgical treatment and novel targets for treatment of atrial fibrillation and 5. Atrial fibrillation in specific conditions and its complications. Each chapter updates the knowledge of atrial fibrillation, providing state-of-the art for not only scientists and clinicians who are interested in electrophysiology, but also general cardiologists.
J Wave Syndromes-Charles Antzelevitch 2016-06-27 This book delineates the state of the art of the diagnosis and treatment of J wave syndromes, as well as where future research needs to be directed. It covers basic science, translational and clinical aspects of these syndromes. The authors are leading experts in their respective fields, who have contributed prominently to the literature concerning these topics. J wave syndromes are one of the hottest topics in cardiology today. Cardiac arrhythmias associated with Brugada syndrome (BrS) or an early repolarization (ER) pattern in the inferior or infero-lateral ECG leads are thought to be mechanistically linked to accentuation of transient outward current (Ito)-mediated J waves. Although BrS and ER syndrome (ERS) differ with respect to magnitude and lead location of abnormal J waves, they are thought to represent a continuous spectrum of phenotypic expression termed J wave syndromes. ERS is divided into three subtypes with the most severe, Type 3, displaying an ER pattern globally in the inferior, lateral and right precordial leads. BrS has been linked to mutations in 19 different genes, whereas ERS has been associated with mutations in 7 different genes. There is a great deal of confusion as to how to properly diagnose and treat the J wave syndromes as well as confusion about the underlying mechanisms. The demonstration of successful epicardial ablation of BrS has provided new therapeutic options for the management of this syndrome for which treatment alternatives are currently very limited, particularly in the case of electrical storms caused by otherwise uncontrollable recurrent VT/VF. An early repolarization pattern is observed in 2-5% of the US population. While it is clear that the vast majority of individuals exhibiting an ER pattern are not at risk for sudden cardiac death, the challenge moving forward is to identify those individuals who truly are at risk and to design safe and effective treatments.
Cardiac Mapping-Mohammad Shenasa 2019-04-04 The expanded guide to cardiac mapping The effective diagnosis and treatment of heart disease may vitally depend upon accurate and detailed cardiac mapping. However, in an era of rapid technological advancement, medical professionals can encounter difficulties maintaining an up-to-date knowledge of current methods. This fifth edition of the much-admired Cardiac Mapping is, therefore, essential, offering a level of cutting-edge insight that is unmatched in its scope and depth. Featuring contributions from a global team of electrophysiologists, the book builds upon previous editions' comprehensive explanations of the mapping, imaging, and ablation of the heart. Nearly 100 chapters provide fascinating accounts of topics ranging from the mapping of supraventricular and ventriculararrhythmias, to compelling extrapolations of how the field might develop in the years to come. In this text, readers will find: Full coverage of all aspects of cardiac mapping, and imaging Explorations of mapping in experimental models of arrhythmias Examples of new catheter-based techniques Access to a companion website featuring additional content and illustrative video clips Cardiac Mapping is an indispensable resource for scientists, clinical electrophysiologists, cardiologists, and all physicians who care for patients with cardiac arrhythmias.
Core Topics in Cardiac Anesthesia-Jonathan H. Mackay 2012-03-15 Since the publication of the first edition of Core Topics in Cardiac Anesthesia, the clinical landscape has undergone significant change. Recent developments include the increased use of electrophysiology, the resurgence of primary percutaneous intervention in acute coronary syndromes, the use of percutaneous devices in patients previously considered inoperable, and the withdrawal of aprotinin. Against this landscape, this invaluable resource has been fully updated. New chapters are dedicated to right heart valves, pulmonary vascular disease, cardiac tumours and cardiac trauma. All other chapters have been updated according to the latest international guidelines. Written and edited by an international author team with a wealth of expertise in all aspects of the perioperative care of cardiac patients, topics are presented in an easy to digest and a readily accessible manner. Core Topics in Cardiac Anesthesia, Second Edition is essential reading for residents and fellows in anesthesia and cardiac surgery and clinical perfusionists.
An Introduction to Cardiac Electrophysiology-Antonio Zaza 2000-08-08 Knowledge of the basic mechanisms of cardiac excitation is a prerequisite to the understanding of cardiac arrythmias and their response to therapy. The goal of this book is to provide readers unacquainted with the matter with the information necessary to develop pathophysiologically oriented clinical reasoning in this area. Besides covering normal aspects of cardiac cellular and tissue electrophysiology, An Introduction to Cardiac Electrophysiology illustrates recently acquired information on electronic abnormalities associated with cardiac disease and on molecular mechanisms of anti-arrhythmic drug action. The language used is suitable to address non-specialists, and the reference to physics has been limited to very basic principles. Enclosed with the book is an interactive computer model for cardiac action potential, that can be easily run on any IBM compatible PC, thus allowing readers to test the effects of changes in individual ionic currents on the shape and properties of the cardiac act.
An Essential Introduction to Cardiac Electrophysiology-Ken MacLeod 2013-11-14 This book provides undergraduate and postgraduate students with an accessible and comprehensive overview of the fascinating area of cardiac electrophysiology. Using plain language and well-designed illustrations, it attempts to overcome the preconceptions of the subject as difficult to approach, given the complexity of intricate electrical cellular processes within the human heart. Based on lectures presented to intercalating BSc medical students, this book has been designed with the undergraduate in mind, but offers enough scope to be worthwhile at the postgraduate level. Readers of this book will feel more confident and at ease with electrical concepts and the important physiological mechanisms that govern the initiation and regulation of the heartbeat. This volume intends to bridge that difficult region between basic undergraduate lecture notes and original papers in an approachable way. It will be useful to students studying medicine, physiology, pharmacology, pharmacy and biology, particularly where their curricula includes not only cardiac physiology, but also neurobiology and muscle physiology.
Essential Cardiac Electrophysiology-Zainul Abedin 2013-02-01 This new edition of Essential Cardiac Electrophysiology: The Self-Assessment Approach continues the successful formula of the first edition, providing a concise and thorough overview of Electrophysiology supplemented by challenging questions readers can use to test their knowledge and prepare for examinations. Comprehensively updated and significantly expanded to include the latest recommendations, findings from leading-edge research, emergent diagnostic tools, and new therapeutic options, Essential Cardiac Electrophysiology: The Self-Assessment Approach now offers coverage of some of hottest topics in EP, including: HCN channels; Congenital, and paroxysmal AV blocks; Left atrial flutter; Electrophysiologic assessment of AVNRT and AVRT; VT ablation; Short QT syndrome; Early repolarization and ventricular fibrillation; Aortic cusp VT; Commotio Cordis, and more. Fact-based and clinically-focused, Essential Cardiac Electrophysiology: The Self-Assessment Approach is an ideal reference for all members of the EP care team, from cardiac care nurses and technicians to EP and cardiology fellows to practicing electrophysiologists. Packed with questions designed to aid readers' understanding of key concepts and retention of essential facts, it is an excellent study aid for those preparing for board examination or other EP certifications.
The Clinical Cardiac Electrophysiology Handbook-Jason G. Andrade, MD 2016-02-26 The Clinical Cardiac Electrophysiology Handbook is a succinct presentation of all the practical information that is needed to understand the subtleties of cardiac electrophysiology and the management of arrhythmias. A focus on the “how to” — learn about the approaches used to identify, diagnose, and manage a broad range of cardiac rhythm disorders. ...with an understanding of the “why”— reinforce the underlying fundamental and clinical science concepts forming the basisfor clinical electrophysiology decision-making. "...a quick source for information in the EP lab or on the wards, as well as a guide to learning—offering the ability to quickly review the essential components prior to a case or to rapidly reinforce new notions and practices encountered during a case." - From the Preface The Clinical Cardiac Electrophysiology Handbook is a succinct, schematic presentation of all the practical information that is needed to understand the subtleties of cardiac electrophysiology and the management of arrhythmias. This book focuses on the “how to”— the approaches used to identify, diagnose, and manage a broad range of cardiac rhythm disorders; and an understanding of the “why”— the underlying fundamental and clinical science concepts forming the basis for clinical electrophysiology decision-making. “ . . . a quick source for information in the EP lab or on the wards, as well as a guide to learning—offering the ability to quickly review the essential components prior to a case or to rapidly reinforce new notions and practices encountered during a case.” — From the Preface - See more at: http://ebooks.cardiotextpublishing.com/product/clinical-cardiac-electrophysiology-handbook#sthash.1iR74kOQ.dpuf The Clinical Cardiac Electrophysiology Handbook is a succinct, schematic presentation of all the practical information that is needed to understand the subtleties of cardiac electrophysiology and the management of arrhythmias. This book focuses on the “how to”— the approaches used to identify, diagnose, and manage a broad range of cardiac rhythm disorders; and an understanding of the “why”— the underlying fundamental and clinical science concepts forming the basis for clinical electrophysiology decision-making. “ . . . a quick source for information in the EP lab or on the wards, as well as a guide to learning—offering the ability to quickly review the essential components prior to a case or to rapidly reinforce new notions and practices encountered during a case.” — From the Preface - See more at: http://ebooks.cardiotextpublishing.com/product/clinical-cardiac-electrophysiology-handbook#sthash.1iR74kOQ.dpuf The Clinical Cardiac Electrophysiology Handbook is a succinct, schematic presentation of all the practical information that is needed to understand the subtleties of cardiac electrophysiology and the management of arrhythmias. This book focuses on the “how to”— the approaches used to identify, diagnose, and manage a broad range of cardiac rhythm disorders; and an understanding of the “why”— the underlying fundamental and clinical science concepts forming the basis for clinical electrophysiology decision-making. “ . . . a quick source for information in the EP lab or on the wards, as well as a guide to learning—offering the ability to quickly review the essential components prior to a case or to rapidly reinforce new notions and practices encountered during a case.” — From the Preface - See more at: http://ebooks.cardiotextpublishing.com/product/clinical-cardiac-electrophysiology-handbook#sthash.1iR74kOQ.dpuf The Clinical Cardiac Electrophysiology Handbook is a succinct, schematic presentation of all the practical information that is needed to understand the subtleties of cardiac electrophysiology and the management of arrhythmias. This book focuses on the “how to”— the approaches used to identify, diagnose, and manage a broad range of cardiac rhythm disorders; and an understanding of the “why”— the underlying fundamental and clinical science concepts forming the basis for clinical electrophysiology decision-making. “ . . . a quick source for information in the EP lab or on the wards, as well as a guide to learning—offering the ability to quickly review the essential components prior to a case or to rapidly reinforce new notions and practices encountered during a case.” — From the Preface - See more at: http://ebooks.cardiotextpublishing.com/product/clinical-cardiac-electrophysiology-handbook#sthash.1iR74kOQ.dpuf
Progress in Catheter Ablation-Liong Bing Liem 2013-11-11 Catheter ablation is widely accepted as an effective and safe form of therapy for cardiac arrhythmia. In many instances this curative procedure is considered as the first line of therapy if not the ultimate treatment of choice. With the use of radiofrequency (RF) modality; which has revolutionized the technology from a barotraumatic, potentially injurious procedure using high voltage, direct-current (DC) shock to a safe and relatively painless one; catheter ablation procedure now carries a very low risk and is extremely effective for certain types of arrhythmia. Its efficacy rate in curing supraventricular tachycardia involving an accessory pathway or dual atrioventricular nodal pathways has been near perfect and its application for certain types of atrial and ventricular arrhythmia have also been very satisfactory. However, conventional RF ablation has several well known limitations, most notably is its ability to only produce relatively small, point lesions; rendering it effective only for an arrhythmia with a small and/or a superficial target. It was soon recognized that the technology would not likely to have significant utility in arrhythmia with a more widespread target such as atrial fibrillation or those which involve scarred and deep myocardial tissue such as ventricular tachycardia. Indeed, the application of conventional RF technology in these complex but common arrhythmia has yielded unsatisfactory results.
Echocardiography in Heart Failure and Cardiac Electrophysiology-Umashankar Lakshmanadoss 2016-10-19 The world of echocardiography continues to be full of exciting new technological developments with an ultimate goal of better patient care. In this book, titled "Echocardiography in Heart Failure and Cardiac Electrophysiology", authors from various parts of the world contributed to the advancement of the field. We have included various chapters about the use of echocardiography and modalities of imaging in various common clinical scenarios - ranging from evaluation of commonly ignored right ventricle, imaging in congestive heart failure, to echocardiographic evaluation of critically ill patients. We have also included topics describing the use of echocardiography in cardiac electrophysiology with special interest to cardiac resynchronization therapy and atrial fibrillation ablation. These topics would be of great interest to the clinicians whether they are trainees, physicians, advanced care providers, or anyone involved in the patient care.
Cardiac Sodium Channel Disorders, An Issue of Cardiac Electrophysiology Clinics,-Hugues Abriel 2015-09-01 The sodium channel, a ubiquitous member of the cardiac, neural, and muscular conduction systems, has been implicated in the pathogenesis of an array of human diseases. Mutations associated with the cardiac sodium channel are responsible for a wide spectrum of disorders. The cardiac sodium channel and associated disorders are comprehensively examined in this issues of the Cardiac Electrophysiology Clinics.
Clinical Cardiac Pacing, Defibrillation and Resynchronization Therapy E-Book-Kenneth A. Ellenbogen 2016-03-30 Your must-have bench reference for cardiac electrophysiology is now better than ever! This globally recognized gold standard text provides a complete overview of clinical EP, with in-depth, expert information that helps you deliver superior clinical outcomes. In this updated 5th Edition, you'll find all-new material on devices, techniques, trials, and much more – all designed to help you strengthen your skills in this fast-changing area and stay on the cutting edge of today's most successful cardiac EP techniques. Expert guidance from world authorities who contribute fresh perspectives on the challenging clinical area of cardiac electrophysiology. New focus on clinical relevance throughout, with reorganized content and 15 new chapters. New coverage of balloons, snares, venoplasty, spinal and neural stimulation, subcutaneous ICDs and leadless pacing, non-CS lead implantation, His bundle pacing, and much more. New sections on cardiac anatomy and physiology and imaging of the heart, a new chapter covering radiography of devices, and thought-provoking new information on the basic science of device implantation. State-of-the-art guidance on pacing for spinal and neural stimulation, computer simulation and modeling, biological pacemakers, perioperative and pre-procedural management of device patients, and much more.
Cardiac Pacing and ICDs-Kenneth A. Ellenbogen 2008-04-15 Fully revised and updated, the fourth edition of Cardiac Pacingand ICDs continues to be an accessible and practical clinicalreference for residents, fellows, surgeons, nurses, PAs, andtechnicians. The chapters are organized in the sequence of the evaluation ofan actual patient, making it an effective practical guide. Revisedchapters and updated artwork and tables plus a new chapter oncardiac resynchronization make the new edition an invaluableclinical resource. Features: · New chapter on Cardiac Resynchronization Therapy · Updated and better quality figures and tables · Updated content based on ACC/AHA/NASPE guidelines · Updated indications for ICD placement · Updated information on ICD and pacemakertroubleshooting
Mathematically Modelling The Electrical Activity Of The Heart: From Cell To Body Surface And Back Again-Pullan Andrew 2005-09-07 This book on modelling the electrical activity of the heart is an attempt to describe continuum based modelling of cardiac electrical activity from the cell level to the body surface (the forward problem), and back again (the inverse problem). Background anatomy and physiology is covered briefly to provide a suitable context for understanding the detailed modelling that is presented herein. The questions of what is mathematical modelling and why one would want to use mathematical modelling are addressed to give some perspective to the philosophy behind our approach. Our view of mathematical modelling is broad — it is not simply about obtaining a solution to a set of mathematical equations, but includes some material on aspects such as experimental and clinical validation.
Essential Cardiac Electrophysiology-Zainul Abedin 2008-04-15 This concise collection of electrophysiological facts prepares you to face the clinical questions surrounding arrhythmia and conduction disorders with confidence. Clear and direct, the book offers: succinct factual information supported by illustrations, tables, and references self-assessment questions for each chapter, to test your knowledge of the area Essential Cardiac Electrophysiology summarizes the fundamental information that forms the basis of the modern approach to cardiac arrhythmias, from an explanation of the electrophysiologic effects of cardiac ion channel activity to the latest information on available implantable defibrillators. All members of the cardiac care team will benefit from keeping this valuable guide close at hand.
Electrophysiology: The Basics-Jonathan S. Steinberg 2016-12-08 Fully revised and updated, the second edition of Electrophysiology: The Basics remains a trusted, practical reference for those who are learning the foundational concepts of electrophysiology. A clear, non-technical style, a new full-color format, and heavily updated content make this an ideal reference not only for cardiology fellows in EP rotations, but also for residents, nurses, medical students, physicians reviewing for recertification, and staff in the arrhythmia/cardiac device clinic.
Basic Cardiac Electrophysiology for the Clinician-Jose Jalife 2011-08-24 This book translates fundamental knowledge in basic cardiac electrophysiology from the bench to the bedside. Revised and updated for its second edition, the text offers new coverage of the molecular mechanisms of ion channel behavior and its regulation, complex arrhythmias, and the broadening roles of devices and ablation. Clear, straightforward explanations are illustrated by plentiful diagrams to make the material accessible to the non-specialist.
The Heart-Lionel H. Opie 1998 A study of vascular biology. It presents a detailed account of cardiac cellular physiology, oxidative metabolism, coronary flow and ventricular function, and traces the cellular events involved in congestive heart failure, angina pectoris, acute myocardial infarction, myocardial reperfusion and arrhythmia development.
Encyclopedia of Cardiovascular Research and Medicine- 2017-11-27 Encyclopedia of Cardiovascular Research and Medicine offers researchers over 200 articles covering every aspect of cardiovascular research and medicine, including fully annotated figures, abundant color illustrations and links to supplementary datasets and references. With contributions from top experts in the field, this book is the most reputable and easily searchable resource of cardiovascular-focused basic and translational content for students, researchers, clinicians and teaching faculty across the biomedical and medical sciences. The panel of authors chosen from an international board of leading scholars renders the text trustworthy, contemporary and representative of the global scientific expertise in these domains. The book's thematic structuring of sections and in-depth breakdown of topics encourages user-friendly, easily searchable chapters. Cross-references to related articles and links to further reading and references will further guide readers to a full understanding of the topics under discussion. Readers will find an unparalleled, one-stop resource exploring all major aspects of cardiovascular research and medicine. Presents comprehensive coverage of every aspect of cardiovascular medicine and research Offers readers a broad, interdisciplinary overview of the concepts in cardiovascular research and medicine with applications across biomedical research Includes reputable, foundational content on genetics, cancer, immunology, cell biology and molecular biology Provides a multi-media enriched color-illustrated text with high quality images, graphs and tables.
Quantitative Cardiac Electrophysiology-David Rosenbaum 2002-08-13 Provides an in-depth study of the theoretical and engineering principles behind the methods and technologies used to solve problems in experimental and clinical cardiac electrophysiology. Each chapter gives an extensive description of the principles underlying a simple method or technology and illustrates how it can be applied to solve problems in

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