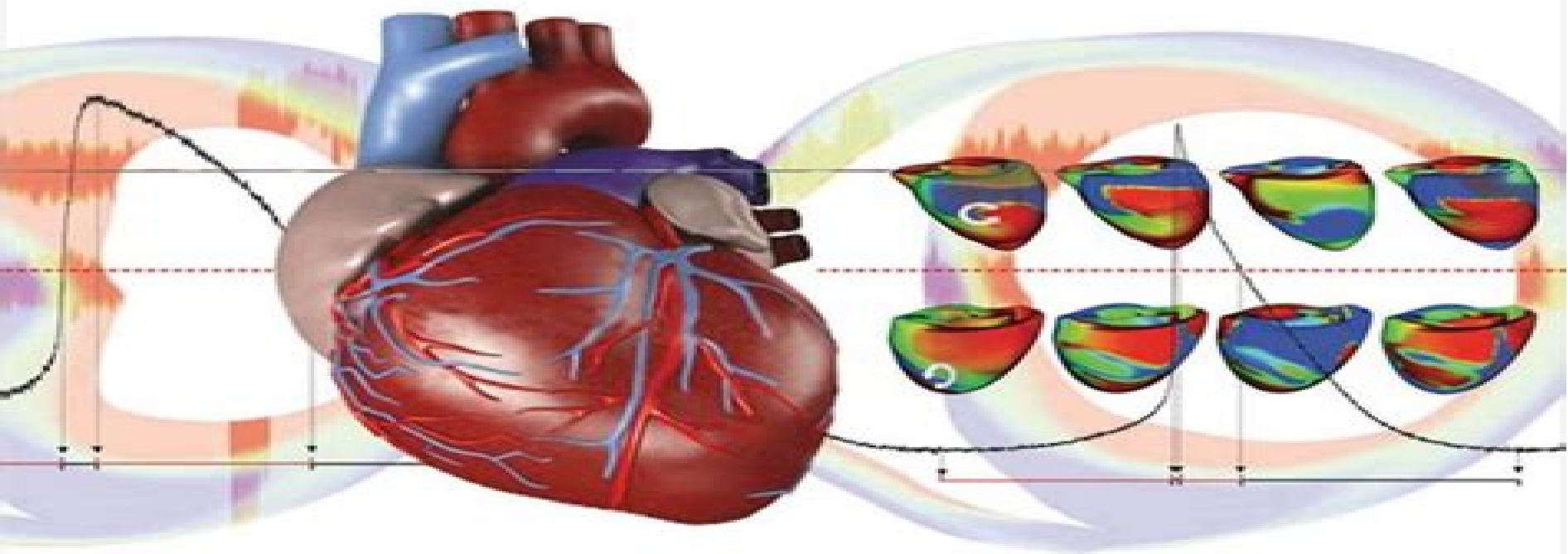


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# Cardiac mechano-electric coupling and arrhythmias

second edition



Peter Kohl, Frederick Sachs, and Michael R. Franz

# Cardiac Mechano Electric Coupling And Arrhythmias

**Douglas P. Zipes, Jose Jalife**



## **Cardiac Mechano Electric Coupling And Arrhythmias:**

Cardiac Mechano-Electric Coupling and Arrhythmias Peter Kohl, Frederick Sachs, Michael R. Franz, 2011-08-25 Ranging from stretch activated ion channels to mechanically induced arrhythmias and mechanical interventions for heart rhythm correction this new edition offers a thoroughly reviewed compendium of chapters written by the top experts in the world on the mechanism and consequences of cardiac mechano electrical coupling

**Cardiac Mechanobiology in Physiology and Disease** Markus Hecker, Dirk J. Duncker, 2023-04-19 This book presents the latest findings in the field of cardiac mechanobiology in health and disease Cardiac mechanobiology provides knowledge of all aspects of mechanobiology of the heart Cardiomyogenesis is discussed as well as the mechanobiology of cardiac remodeling and regeneration The molecular mechanisms of mechanoperception and mechanotransduction in cardiomyocytes are explained as well as stretch induced differentiation of cardiomyocytes derived from induced pluripotent stem cells This volume of the series Cardiac and Vascular Biology complements the volume Vascular Mechanobiology in Physiology and Disease volume 8 published in this series The book is aimed at clinicians as well as researchers in cardiovascular biology bioengineering and biophysics and also represents an educational resource for young researchers and students in these fields

*Cardiac Electrophysiology: From Cell to Bedside E-Book* Douglas P. Zipes, Jose Jalife, William Gregory Stevenson, 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

**Emerging Technologies for Heart Diseases** Udi Nussinovitch, 2020-08-19 The increasing pace of advances in cardiology throughout the last few decades has fundamentally altered the natural course of heart patients In the last few years available therapies have been revolutionized completely by new transcatheter therapeutic approaches novel ventricular assist devices and new drugs Also molecular biology and genetics have a rapidly growing impact on cardiovascular diseases enabling the field of regenerative medicine to become increasingly closer to routine clinical

implementation Emerging Technologies for Heart Diseases was conceived to cover the recent extensive literature on current and novel therapeutic options for cardiac patients The first volume is dedicated to heart failure and valvular disorders and the second covers myocardial ischemia and arrhythmias The clinical topic is addressed in several chapters divided according to the therapeutic approach mechanical or electrical device based or cell and gene based Each of the 46 chapters focuses on clinically available solutions new therapies currently under evaluation in clinical trials promising preclinical technologies and emerging concepts and innovations that have not yet been tested in a preclinical model Also the book discusses future challenges and opportunities for clinical implementation Lessons learned from abandoned experimental practices are also covered giving the readers the widest possible perspective of current therapeutic dilemmas Overall this textbook was designed for physicians who want to stay up to date with current therapies and those of the future for biomedical companies and for those who wish to broaden their knowledge of new cardiovascular therapeutic options Provides a comprehensive review of the latest therapeutic developments for heart failure valvular disorders myocardial ischemia and arrhythmias and their clinical implications Written by both specialists in the field and established researchers it delivers a review of emerging medical technologies and presents insight into their therapeutic promise Chapters are arranged according to disease pathogeneses and relevance and include coverage of the mechanical electrophysiological and biological approaches for the management of patients with myocardial ischemia and arrhythmias Mechano-Calcium, Mechano-Electric, and Mechano-Metabolic Feedback Loops: Contribution to the Myocardium Contraction in Health and Diseases Leonid

Katsnelson,Gentaro Iribe,Remi Peyronnet,Olga Solovyova,2021-06-01 **Cardiac Electrophysiology: from Cell to Bedside** Douglas P. Zipes,Jose Jalife,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

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the book goes one step further and considers future prospects e g novel antiarrhythmic agents and new concepts like optogenetics in the context of heart rate regulation Accordingly it offers readers a solid reference guide to everything they need to know about human heart rate and rhythm

**Cardiac Mechano-electric Feedback and Arrhythmias** Peter Kohl, Frederick Sachs, Michael R. Franz, 2005 Kohl Cardio Mechano Electric Feedback Lab Oxford University documents the role of mechano electric feedback MEF in electrical and mechanical pathological remodeling of cardiac function Sections cover sub cellular mechanisms of cardiac MEF effects of MEF on cardiac cellular electrophysiology experimental manifestations of MEF in the heart cardiac MEF in normal physiology cardiac MEF as a pathogenic mechanism MEF as a mechanism involved in therapeutic interventions and the outlook for the future B w and color photos and medical images are included Annotation 2005 Book News Inc Portland OR booknews com

**Atrial Fibrillation Update: A Textbook of Cardiology** HK Chopra, Gurpreet S Wander, Praveen Chandra, Viveka Kumar, 2017-03-31 Atrial fibrillation is a heart condition that causes an irregular and often abnormally fast heart rate It can cause problems including dizziness shortness of breath and tiredness and a patient may be aware of noticeable heart palpitations where the heart feels like it is pounding fluttering or beating irregularly often for a few seconds or in some cases a few minutes NHS Choices This comprehensive guide presents clinicians with the latest developments in the diagnosis and management of atrial fibrillation Divided into seven sections the book covers clinical spectrum diagnosis therapeutic strategies interventions and new technologies used in its treatment and prevention Complete sections are dedicated to other arrhythmias to cardiac surgery and to future directions in atrial fibrillation With more than 1000 pages providing in depth coverage of the topic this manual is further enhanced by clinical photographs diagrams and tables Key Points Comprehensive guide to latest developments in diagnosis and treatment of atrial fibrillation More than 1000 pages discuss clinical spectrum diagnosis treatment options interventions and new technologies Complete sections dedicated to other arrhythmias cardiac surgery and future directions Highly illustrated with clinical photographs diagrams and tables

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