

# Radiofrequency Catheter Ablation of Cardiac Arrhythmias

Basic Concepts and Clinical Applications

2ND EDITION

Shoei K. Stephen Huang MD  
David J. Wiber MD

# Radiofrequency Catheter Ablation Of Cardiac Arrhythmias Basic Concepts And Clinical Applications

**Liong Bing Liem, Eugene Downar**



## **Radiofrequency Catheter Ablation Of Cardiac Arrhythmias Basic Concepts And Clinical Applications:**

Radiofrequency Catheter Ablation of Cardiac Arrhythmias Shoei K. Stephen Huang, MD, David J. Wiber, MD, 2000-06-08 Since its inception in the mid 1980s this therapeutic procedure has evolved to become an indispensable therapeutic modality in the treatment of arrhythmias Now there is a cure without surgery This text provides a comprehensive description of radiofrequency catheter ablation of cardiac arrhythmias from basic concepts of biophysics and pathophysiology of radiofrequency lesion formation to clinical application of the technique in every aspect of arrhythmia ablation Each chapter provides an indepth review of the topic including the most current information and references Catheter Ablation of Cardiac Arrhythmias David J. Wilber, Douglas L. Packer, William G. Stevenson, 2011-09-22 Radiofrequency Catheter Ablation of Cardiac Arrhythmias has been so extensively updated for its third edition that the book now features a new title Catheter Ablation of Cardiac Arrhythmias Basic Concepts and Clinical Applications The editors bring you 21 polished chapters each updating the fundamentals and progressing to advanced concepts providing state of the art knowledge with highly relevant material for experienced electrophysiologists as well as fellows in training This streamlined new edition features Two new editors both widely published and leaders in the field of catheter ablation 21 instead of 39 chapters achieved by focusing on primary topics of broad interest and assimilating information from a wide range of sources Fewer authors chosen for their recognized contributions to the topics under discussion providing a more integrated and coherent approach Anatomic insights from leading pathologist Siew Yen Ho integrated with new information from imaging technologies Each chapter dealing with ablation of a specific arrhythmia features the author s personal approach to ablation of the arrhythmia including practical how to tips and a review of potential pitfalls Alternate approaches and variations are succinctly summarized Original figures and drawings illustrate specific approaches to improve the usability of the book **Catheter Ablation of Cardiac Arrhythmias** Shoei K. Huang, Mark A. Wood, 2011 The breadth and range of the topics covered and the consistent organization of each chapter give you simple but detailed access to information on anatomy diagnostic criteria differential diagnosis mapping and ablation the book includes a unique section on troubleshooting difficult cases for each arrhythmia and the use of tables illustrations and high quality figures is unmatched among publications in the field Catheter Ablation of Cardiac Arrhythmias E-Book Shoei K. Stephen Huang, Jason S. Bradfield, Kalyanam Shivkumar, 2024-04-17 Selected for 2025 Doody s Core Titles in Cardiology Written and edited by world renowned experts in the field including Dr Shoei K Stephen Huang a pioneer of radiofrequency catheter ablation procedures Huang s Catheter Ablation of Cardiac Arrhythmias 5th Edition provides authoritative comprehensive information on these increasingly used electrophysiology procedures This outstanding resource is packed with cutting edge content in every area of this fast changing field including anatomy diagnostic criteria differential diagnosis mapping and ablation Ideal for practitioners who need a definitive user friendly ablation text for the electrophysiology lab or office setting it offers quick access to practical content using detailed tables and

high quality images to help you apply what you learn in your practice Reflects all the latest technology including the new pulse field ablation PFA procedure new balloon technologies RF laser and PFA for pulmonary vein isolation and high resolution 3D mapping systems Offers expert guidance on atrial tachycardia and flutter atrial fibrillation atrioventricular nodal reentrant tachycardia tachycardias related to accessory atrioventricular connections ventricular tachycardia transseptal catheterization techniques ablation for pediatric patients and patient safety and complications Contains new chapters covering Biophysics and Clinical Applications of Laser Ablation Biophysics and Clinical Applications of Pulse Field Ablation Multiple Strategic Approach to Ablate Atrial Fibrillation Ablation of Challenging Difficult Accessory Pathways Ablation of Ventricular Tachycardia in Arrhythmogenic Ventricular Cardiomyopathy and more Contains 450 figures including ECGs intracardiac recordings 3D mapping ultrasound fluoroscope and ablation images Includes numerous tables and boxes that provide quick access to key points arrhythmia mechanisms diagnostic criteria target sites for ablation use of special equipment complications and troubleshooting problems and their solutions Provides access to 20 video clips including transseptal access to the left atrium intracardiac ultrasound and techniques of pericardial access      **Clinical**

**Arrhythmology and Electrophysiology** Ziad F. Issa, John Michael Miller, Douglas P. Zipes, 2009 With its unique singular focus on the clinical aspect of cardiac arrhythmias Clinical Arrhythmology and Electrophysiology A Companion to Braunwald's Heart Disease makes it easy to apply today's most up to date guidelines for diagnosis and treatment An expert author team provides clear clinically focused guidance on all types of cardiac arrhythmias including practical techniques for managing complex patients Find the information you need quickly with a consistent organization in all chapters written to a template that shows every arrhythmia type in a similar manner Access the fully searchable contents online at [www.expertconsult.com](http://www.expertconsult.com) in addition to downloadable images and dynamic video clips Fully understand the rationale for treatment of specific arrhythmias with practical techniques that are grounded in the most recent basic science Stay up to date with new chapters on molecular mechanisms of cardiac electrical activity cardiac ion channels ventricular tachycardia in nonischemic dilated cardiomyopathy epicardial ventricular tachycardia ventricular arrhythmias in hypertrophic cardiomyopathy ventricular arrhythmias in inherited channelopathies ventricular arrhythmias in congenital heart disease atrial arrhythmias in congenital heart disease and complications of catheter ablation of cardiac arrhythmias View videos of 27 key techniques online including optical mapping of reentrant ventricular arrhythmias 3 dimensional mapping of arrhythmias using different mapping and navigation modalities and fluoroscopy images illustrating techniques for electrophysiologic catheter positioning atrial septal puncture and pericardial access Gain a new understanding of hot topics such as mechanisms of arrhythmias electrophysiologic testing mapping and navigation modalities ablation energy sources sinus node dysfunction conduction disturbances atrial tachyarrhythmias preexcitation syndromes and all types of ventricular and supraventricular tachycardias Tackle the clinical management of cardiac arrhythmias with confidence with the most up to date guidance from the experts

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Clinical Arrhythmology and Electrophysiology: A Companion to Braunwald's Heart Disease E-Book Ziad Issa, John M. Miller, Douglas P. Zipes, 2012-04-24 With its unique singular focus on the clinical aspect of cardiac arrhythmias Clinical Arrhythmology and Electrophysiology A Companion to Braunwald's Heart Disease makes it easy to apply today's most up to date guidelines for diagnosis and treatment An expert author team provides clear clinically focused guidance on all types of cardiac arrhythmias including practical techniques for managing complex patients Find the information you need quickly with a consistent organization in all chapters written to a template that shows every arrhythmia type in a similar manner Access the fully searchable contents online at [www.expertconsult.com](http://www.expertconsult.com) in addition to downloadable images and dynamic video clips Fully understand the rationale for treatment of specific arrhythmias with practical techniques that are grounded in the most recent basic science Stay up to date with new chapters on molecular mechanisms of cardiac electrical activity cardiac ion channels ventricular tachycardia in nonischemic dilated cardiomyopathy epicardial ventricular tachycardia ventricular arrhythmias in hypertrophic cardiomyopathy ventricular arrhythmias in inherited channelopathies ventricular arrhythmias in congenital heart disease atrial arrhythmias in congenital heart disease and complications of catheter ablation of cardiac arrhythmias View videos of 27 key techniques online including optical mapping of reentrant ventricular arrhythmias 3 dimensional mapping of arrhythmias using different mapping and navigation modalities and fluoroscopy images illustrating techniques for electrophysiologic catheter positioning atrial septal puncture and pericardial access Gain a new understanding of hot topics such as mechanisms of arrhythmias electrophysiologic testing mapping and navigation modalities ablation energy sources sinus node dysfunction conduction disturbances atrial tachyarrhythmias preexcitation syndromes and all types of ventricular and supraventricular tachycardias

**Cardiac Arrhythmias: New Insights for the Healthcare Professional: 2013 Edition**, 2013-07-22 Cardiac Arrhythmias New Insights for the Healthcare Professional 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Additional Research in a concise format The editors have built Cardiac Arrhythmias New Insights for the Healthcare Professional 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Cardiac Arrhythmias New Insights for the Healthcare Professional 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and

available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>      **Noninvasive Physiological Measurement** James C. Lin, 2024-05-08

This book explains the principles and techniques of microwave physiological sensing and introduces fundamental results of the noninvasive sensing of physiological signatures vital signs as well as life detection Specifically noninvasive microwave techniques for contact contactless and remote sensing of circulatory and respiratory movements and physiological volume changes are discussed Noninvasive Physiological Measurement Wireless Microwave Sensing is written by a pioneering researcher in microwave noninvasive physiological sensing and leading global expert in microwaves in biology and medicine The book reviews current advances in noninvasive cardiopulmonary sensing technology and measurement It includes measurements of the vital signs and physiological signatures from laboratory and clinical testing The book discusses the applicable domains and scenarios in which there is an interaction of radio frequency RF and microwaves with biological matter in gas fluid or solid form both from inside and outside of the human or animal body The book also provides examples for healthcare monitoring and diagnostic applications through wearables devices or remote contactless sensors for physiological signals and signature vital signs and body motion sensing This book is an essential guide to understanding the human body's interaction with microwaves and noninvasive physiological sensing and monitoring This book is intended for researchers and professionals in biomedical electrical and computer engineering with an interest in antenna sensors microwaves signal processing and medical applications It will also be of interest to healthcare professionals technologists and practitioners interested in noninvasive physiological sensing and patient monitoring      Variants of Ventricular Preexcitation Eduardo Back Sternick, Hein J. J. Wellens, 2008-04-15 Variants of Ventricular Preexcitation Recognition and Treatment provides a unique opportunity for general cardiologists and electrophysiologists to find in one text the intricacies of recognizing and treating a group of disorders that has intrigued physicians for more than 100 years from the Foreword by Mark E Josephson MD Chief Cardiovascular Division Beth Israel Deaconess Medical Center Boston USA Drs Sternick and Wellens combine their expertise in the diagnosis and treatment of cardiac arrhythmias to bring you this complete overview of decrementally conducting accessory pathways and their role in cardiac arrhythmias This is the first book dedicated to these special types of accessory pathways their recognition and management By covering the uncommon varieties of ventricular preexcitation this book supports you in improving patient care by Helping you to identify decrementally conducting AV fibers which comprise 3-5 % of all accessory AV pathways Explaining exactly what information can be obtained from the 12 lead ECG Showing how to identify and localize these pathways during an electrophysiologic study Detailing the proper treatment and how to treat these patients By explaining the fundamental pathophysiology as well as the diverse clinical presentation of arrhythmias Drs Sternick and Wellens demystify the subject of the different variants of decrementally conducting accessory pathways leading to ventricular pre excitation and their role in cardiac arrhythmias      Cardiac Mapping Mohammad

Shenasa, Gerhard Hindricks, David J. Callans, John M. Miller, Mark E. Josephson, 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 ventricular arrhythmias 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

**Interventional Cardiac Electrophysiology** Ralph J. Damiano, Jr., MD, FACC, FACS, N.A. Mark Estes III, MD, FACC, FHRS, FAHA, FESC, Francis E. Marchlinski, MD, FACC, FHRS, FAHA, 2015-05-15 Interventional Cardiac Electrophysiology is the first and only comprehensive state of the art textbook written for practitioners in multiple specialties involved in the care of the arrhythmia patient Encompassing the entire field of interventional therapy for cardiac rhythm management from basic science to evidence based medicine to future directions topics include Technology and Therapeutic Techniques EP techniques imaging and radiologic technology device and ablation technology drug therapy Interventional Electrophysiologic Procedures Diagnostic and physiologic EP techniques mapping in percutaneous catheter and surgical EP procedures catheter and surgical ablation device implantation and management Clinical Indications and Evidence based Outcomes Standards For medical and surgical EP interventions for arrhythmias New Directions in Interventional Electrophysiology Hybrid therapy for atrial and ventricular arrhythmias and staged therapy This book will be essential reading for clinicians and researchers that form the health care team for arrhythmia patients cardiologists adult and pediatric clinical electrophysiologists interventional electrophysiologists cardiac surgeons practicing arrhythmia surgery allied health care professionals pharmacologists radiologists and anesthesiologists evaluating arrhythmia patients and basic scientists from the biomedical engineering and experimental physiology disciplines Professor Sanjeev Saksena has been involved in this arena for over three decades and has brought his experience to this textbook assembling editorial leadership from medical and surgical cardiology to provide a global perspective on fundamentals of medical practice evidence based therapeutic practices and emerging research in this field This book includes 95 videos

**The AHA Clinical Cardiac Consult** J. V. Nixon, 2010-10-18 The ideal source of fast reliable guidance on diagnosis and management of both common and rare cardiovascular problems this handbook covers more than 170

problems diseases syndromes and chief complaints in the popular easy to read two page 5 Minute Consult format

*Medical Instrumentation* John G. Webster, 2009-02-03 This book provides biomedical engineers with the premiere reference on medical instrumentation as well as a comprehensive overview of the basic concepts The revised edition features new material on infant apnea monitors impedance pneumography the design of cardiac pacemakers and disposable defibrillator electrodes and their standards Each chapter includes new problems and updated reference material that cover the latest medical technologies The chapters have also been revised with new material in medical imaging providing biomedical engineers with the most current techniques in the field      Auditory Effects of Microwave Radiation James C.

Lin, 2021-08-19 This book examines the human auditory effects of exposure to directed beams of high power microwave pulses which research results have shown can cause a cascade of health events when aimed at a human subject or the subject's head The book details multidisciplinary investigations using physical theories and models physiological events and phenomena and computer analysis and simulation Coverage includes brain anatomy and physiology dosimetry of microwave power deposition microwave auditory effect interaction mechanisms shock pressure wave induction Havana syndrome and application in microwave thermoacoustic tomography MTT The book will be welcomed by scientists academics health professionals government officials and practicing biomedical engineers as an important contribution to the continuing study of the effects of microwave pulse absorption on humans      *Progress in Catheter Ablation* Liong Bing Liem, Eugene

Downar, 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      **Interventional Electrophysiology** Igor Singer, 2001

This thoroughly updated Second Edition is a comprehensive practical guide to all current techniques and procedural aspects of interventional electrophysiology A leading international group of experts describes in depth the procedures and techniques the rationale for their use and the available alternatives Complementing the text are more than 600 illustrations



including spatially oriented how to line drawings radiographs and conceptual diagrams This edition features an extensively updated program of illustrations and includes the latest information on dual chamber defibrillators atrial defibrillators and ablation techniques and ablation and catheters Image-guided Therapy Systems Shahram Vaezy,Vesna Zderic,2009 This title provides a global survey of the rapidly growing field of image guided therapy You find detailed coverage of a wide range of key topics from MRI guided surgery robotic cardiac surgery and brachytherapy and hyperthermia for cancer treatment to modern procedures in neurosurgery laser cosmetic therapy and ultrasound guided high intensity focused ultrasound therapy for non invasive tumor treatment You learn the fundamentals of imaging and therapeutic modalities and their capabilities and constraints in implementation of image guided therapy systems Modern Antenna Handbook Constantine A. Balanis,2011-09-20 The most up to date comprehensive treatment of classical and modern antennas and their related technologies Modern Antenna Handbook represents the most current and complete thinking in the field of antennas The handbook is edited by one of the most recognizable prominent and prolific authors educators and researchers on antennas and electromagnetics Each chapter is authored by one or more leading international experts and includes coverage of current and future antenna related technology The information is of a practical nature and is intended to be useful for researchers as well as practicing engineers From the fundamental parameters of antennas to antennas for mobile wireless communications and medical applications Modern Antenna Handbook covers everything professional engineers consultants researchers and students need to know about the recent developments and the future direction of this fast paced field In addition to antenna topics the handbook also covers modern technologies such as metamaterials microelectromechanical systems MEMS frequency selective surfaces FSS and radar cross sections RCS and their applications to antennas while five chapters are devoted to advanced numerical computational methods targeted primarily for the analysis and design of antennas *Catheter Ablation of Atrial Fibrillation* Etienne Aliot,2011-08-31 Catheter Ablation of Atrial Fibrillation Edited by Etienne Aliot MD FESC FACC FHRS Chief of Cardiology H pital Central University of Nancy France Michel Ha ssaguerre MD Chief of Electrophysiology H pital Cardiologique du Haut L v que France Warren M Jackman MD Chief of Electrophysiology University of Oklahoma Health Science Center USA In this text internationally recognized authors explore and explain the advances in basic and clinical electrophysiology that have had the greatest impact on catheter ablation of atrial fibrillation AF Designed to assist in patient care stimulate research projects and continue the remarkable advances in catheter ablation of AF the book covers the fundamental concepts of AF origin of signals computer simulation and updated reviews of ablation tools the present practical approaches to the ablation of specific targets in the fibrillating atria including pulmonary veins atrial neural network fragmented electrograms and linear lesions as well as the strategies in paroxysmal or chronic AF or facing left atrial tachycardias the special challenge of heart failure patients the impact of ablation on mortality atrial mechanical function and lessons from surgical AF ablation Richly illustrated by numerous high quality images Catheter

Ablation of Atrial Fibrillation will help every member of the patient care team      *Ultrasound Elastography for Biomedical Applications and Medicine* Ivan Z. Nenadic, Matthew W. Urban, James F. Greenleaf, Jean-Luc Gennisson, Miguel Bernal, Mickael Tanter, 2018-10-25 *Ultrasound Elastography for Biomedical Applications and Medicine* Ivan Z Nenadic Matthew W Urban James F Greenleaf Mayo Clinic Ultrasound Research Laboratory Mayo Clinic College of Medicine USA Jean Luc Gennisson Miguel Bernal Mickael Tanter Institut Langevin Ondes et Images ESPCI ParisTech CNRS France Covers all major developments and techniques of Ultrasound Elastography and biomedical applications The field of ultrasound elastography has developed various techniques with the potential to diagnose and track the progression of diseases such as breast and thyroid cancer liver and kidney fibrosis congestive heart failure and atherosclerosis Having emerged in the last decade ultrasound elastography is a medical imaging modality that can noninvasively measure and map the elastic and viscous properties of soft tissues *Ultrasound Elastography for Biomedical Applications and Medicine* covers the basic physics of ultrasound wave propagation and the interaction of ultrasound with various media The book introduces tissue elastography covers the history of the field details the various methods that have been developed by research groups across the world and describes its novel applications particularly in shear wave elastography Key features Covers all major developments and techniques of ultrasound elastography and biomedical applications Contributions from the pioneers of the field secure the most complete coverage of ultrasound elastography available The book is essential reading for researchers and engineers working in ultrasound and elastography as well as biomedical engineering students and those working in the field of biomechanics

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