

# 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 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

**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

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

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**BioElectroMagnetics** Riadh Habash,2020-05-04 This book is an educational resource of evolving scientific knowledge in the area of bioelectromagnetics that may serve the interests of students and decision makers as well as society as a whole It is distinguished by extensive descriptions of fundamental biophysical concepts and their relevance to human health Reflecting the transdisciplinary approach from several different intellectual streams including physics biology epidemiology medicine environment risk science and engineering the book is quite a venture into the battling studies to assess the latest research on health effects and biomedical applications of EM energy This new edition of the book particularly looks at the potential threats from the emerging 5G wireless networks which will deploy large numbers of low powered smartphones notebooks tablets radio access networks and other transmitters Features Introduces necessary biophysical principles of EM fields in the context of their interaction with living systems Strengthens understanding of cutting edge research on several major areas in the broad area of bioelectromagnetics Presents safety standards and guidelines for human exposure to EM fields Discusses techniques that have been developed to ensure adequate EM thermal dosimetry required for both health effects and biomedical applications Provides insight into the determinants of EM health risk assessment and public concerns Includes extensive reference list at the end of each chapter to enhance further study Riadh Habash is a special appointment professor and McLaughlin Research Chair in Electromagnetic Fields and Health at the University of Ottawa Canada He has been the recipient of many awards including the National Wighton Fellowship Award and has authored or co authored over 90 research articles six books and five book chapters His most recent books are *Green Engineering* in 2017 and *Professional Practice* in 2019 CRC Press with the remaining previous books targeting the area of bioelectromagnetics

*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

**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

**Engineering Electromagnetics** Rajeev Bansal, 2018-10-08 Electromagnetics is too important in too many fields for knowledge to be gathered on the fly Knowing how to apply theoretical principles to the solutions of real engineering problems and the development of new technologies and solutions is critical Engineering Electromagnetics Applications provides such an understanding demonstrating how to apply the underlying physical concepts within the particular context of the problem at hand Comprising chapters drawn from the critically acclaimed Handbook of Engineering Electromagnetics this book supplies a focused treatment covering radar wireless satellite and optical communication technologies It also introduces various numerical techniques for computer aided solutions to complex problems emerging problems in biomedical applications and techniques for measuring the biological properties of materials Engineering Electromagnetics Applications shares the broad experiences of leading experts regarding modern problems in electromagnetics

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 Saxena 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

**Handbook of Engineering Electromagnetics** Rajeev Bansal, 2004-09-01 Engineers do not have the time to wade through rigorously theoretical books when trying to solve a problem Beginners lack the expertise required to understand highly specialized treatments of individual topics This is especially problematic for a field as broad as electromagnetics which propagates into many diverse engineering fields The time h **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 **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

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