

1. Record Nr.	UNISA996211824503316
Titolo	Clinical cardiac pacing, defibrillation, and resynchronization therapy [[electronic resource] /] / [edited by] Kenneth A. Ellenbogen ... [et al.]
Pubbl/distr/stampa	Philadelphia, : Saunders/Elsevier, c2007
ISBN	1-4377-1066-2
Edizione	[3rd ed.]
Descrizione fisica	1 online resource (1269 p.)
Altri autori (Persone)	EllenbogenKenneth A
Disciplina	617.4/120645
Soggetti	Cardiac pacing Defibrillators
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Clinical Cardiac Pacing, Defibrillation, and Resynchronization Therapy; Copyright Page; Contributors; Preface; Contents; DVD Contents; Section One: Basic Principles of Device Therapy; Chapter 1. Cardiac Electrical Stimulation; Concepts Related to Electrical Stimulation of the Heart; Cellular Aspects of Myocardial Stimulation; Ion Channels; Artificial Electrical Stimulation of Cardiac Tissue; Strength-Duration Relationships; Strength-Interval Relationships; Factors Opposing Pacemaker Current Flow; Impedance in the Extracellular Electrolyte Cathodal and Anodal Stimulation, Constant Voltage, Constant Current, Monophasic and Biphasic StimulationUnipolar and Bipolar Stimulation; Constant-Current Versus Constant-Voltage Stimulation; Monophasic and Biphasic Waveforms; Design Features of Pacing Electrodes That Affect Performance; Clinical Aspects of Myocardial Stimulation by Pacemakers; Biventricular Pacing; Automated Capture Features; Adequate Margin of Safety; Summary; Chapter 2. Principles of Defibrillation: From Cellular Physiology to Fields and Waveforms; Fibrillation; Defibrillation; Acknowledgment Chapter 3. Sensing and DetectionIntracardiac Electrograms; Sensing; Ventricular Oversensing: Recognition and Troubleshooting; Basics of Detection of Ventricular Tachycardia/Fibrillation; SVT-VT Discrimination in Ventricular ICDs; Detection: Programming and Troubleshooting; Undersensing and Underdetection; Detection of SVT

and VT as a Diagnostic Tool and as a Basis for Atrial Antitachycardia Pacemakers and Atrial ICDs; Subcutaneous Electrocardiography; Future Directions; Chapter 4. Engineering and Construction of Pacemaker and Implantable Cardioverter- Defibrillator Leads  
Implantable Cardioverter-Defibrillator Leads  
Epicardial ICD Lead Systems: Historical Perspective; Endocardial ICD Lead Systems; Endocardial ICD Lead Composition; Extrathoracic Defibrillation Electrodes; Other Defibrillator Electrode Configurations; Lead Determinants of Defibrillation Threshold; Implantation Techniques; Complications of Nonthoracotomy ICD Leads; Biventricular Pacing; Cardiac Resynchronization Therapy Leads; Lead Follow-up; Lead Extraction; Future Advances; Summary; Lead Polarity: Unipolar Versus Bipolar Electrodes; Electrode Size; Polarization; Electrode Design  
Electrode Material  
Lead Conductors; Insulation; Fixation Mechanisms; Electrode-Tissue Interface; Steroid-Eluting Leads; Lead Recalls: Accufix Issues; Conclusions; Chapter 5. Sensors for Implantable Devices: Ideal Characteristics, Sensor Combinations, and Automaticity; Historical Landmarks of Rate- Adaptive Pacing; Normal Heart Rate and Respiratory Responses to Exercise and Nonexercise Needs; Components of a Rate-Adaptive Pacing System; Rate-Control Algorithms and Rate-Response Curves; Characteristics of an Ideal Rate-Adaptive Pacing System  
Principles Used for Comparing and Evaluating Rate-Adaptive Systems

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Sommario/riassunto

This 3rd edition presents cutting-edge standards of pacing and defibrillation to keep you at the forefront of this rapidly expanding field. You'll find coverage of all the new devices and management strategies you need to solve a full range of clinical problems using today's best approaches. Written by world authorities on pacing and devices for cardiac care, this new full-color 3rd edition is the more practical than ever! Addresses the management of patients with a broad range of conditions, including sinus node disease, carotid sinus hypersensitivity, tachyarrhythmias, heart failure,

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