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| Nota di contenuto | Cover -- Title Page -- Copyright -- Dedication -- Foreword: Historical Perspectives -- Preface -- Contents -- Chapter 1 General Principles and Techniques of Electrophysiologic Investigation -- THE ELECTROPHYSIOLOGY LABORATORY -- Personnel -- INTRACARDIAC SIGNAL RECORDING AND INTERPRETATION -- Equipment -- CARDIAC CATHETERIZATION TECHNIQUE -- Right Atrium -- Left Atrium -- Right Ventricle -- Left Ventricle -- His Bundle Electrogram -- RISKS AND COMPLICATIONS -- Significant Hemorrhage -- Thromboembolism -- Phlebitis -- Arrhythmias -- Complications of Left Ventricular Studies -- Pericardial Effusion/Tamponade -- INTERPRETATION OF ELECTROPHYSIOLOGY STUDIES -- General Concepts -- MEASUREMENT OF CONDUCTION INTERVALS -- His Bundle Electrogram -- Assessment of "H"-V Interval -- Establishing Relationship of the His Bundle Deflection to Other Electrograms: Role of Catheter Position -- Simultaneous Left-Sided and Right-Sided Recordings -- His Bundle Pacing -- A-H Interval -- H-V Interval -- Intra-Atrial Conduction -- Intraventricular Conduction -- DESCRIPTION OF ELECTROGRAMS -- |

Descriptive Characteristics -- Quantitative Characteristics -- Left Ventricular Endocardial Activation -- PROGRAMMED STIMULATION -- Incremental Pacing -- Refractory Periods -- Patterns of Response to Atrial Extrastimuli -- Patterns of Response to Ventricular Extrastimuli -- Safety of Ventricular Stimulation -- Comparison of Antegrade and Retrograde Conduction -- Chapter 2 Sinus Node Function -- ELECTROCARDIOGRAPHIC FEATURES OF SINUS NODE DYSFUNCTION -- Sinus Bradycardia -- Sinoatrial Block and Sinus Arrest -- Bradycardia-Tachycardia Syndrome -- ELECTROCARDIOGRAPHIC MONITORING OF PATIENTS SUSPECTED OF HAVING SINUS NODE DYSFUNCTION -- ASSESSMENT OF AUTONOMIC TONE -- ELECTROPHYSIOLOGIC EVALUATION OF SINUS NODE FUNCTION -- Sinoatrial Conduction Time -- Sinus Node Electrogram.
Sinoatrial Conduction Time in Patients With Sick Sinus Syndrome -- Sinus Node Recovery Time -- Effect of Atropine and Autonomic Blockade on Sinus Node Recovery Time in Normal Persons -- Results of Sinus Node Testing in Patients Suspected of Having Sinus Node Dysfunction -- EFFECT OF DRUGS ON SINUS NODE RECOVERY TIME AND SINOATRIAL CONDUCTION TIME -- Digoxin -- Propranolol -- Calcium Channel Antagonists -- Antiarrhythmic Agents -- VAGAL HYPERSENSITIVITY (NEUROCIRCULATORY) SYNDROMES -- THERAPEUTIC IMPLICATIONS -- Chapter 3 Atrioventricular Conduction -- ATRIUM -- ATRIOVENTRICULAR NODE -- HIS BUNDLE -- INFRA-HIS CONDUCTION SYSTEM -- PAROXYSMAL A-V BLOCK -- VALUE OF INTRACARDIAC STUDIES IN THE EVALUATION OF A-V CONDUCTION DISTURBANCES -- SUPPRESSION OF A-V CONDUCTION BY VENTRICULAR STIMULATION -- THERAPEUTIC CONSIDERATIONS -- Chapter 4 Intraventricular Conduction Disturbances -- DEFINITIONS -- SITE OF "BLOCK" OR CONDUCTION DELAY DURING BUNDLE BRANCH BLOCK -- Chronic Right Bundle Branch Block -- Left Bundle Branch Block -- Transient Bundle Branch Block -- CLINICAL RELEVANCE OF INTRAVENTRICULAR CONDUCTION DISTURBANCES -- Role of Electrophysiologic Studies in Predicting Risk of Heart Block -- Methods to Identify Patients at Risk of Developing A-V Block -- Alternating Bundle Branch Block -- Syncope and Sudden Death in Patients With Bundle Branch Block -- THERAPEUTIC IMPLICATIONS -- Chapter 5 Miscellaneous Phenomena Related to Atrioventricular Conduction -- CONCEALED CONDUCTION -- GAP PHENOMENON -- SUPERNORMAL CONDUCTION -- Chapter 6 Ectopic Rhythms and Premature Depolarizations -- ATRIAL DEPOLARIZATIONS -- JUNCTIONAL (HIS BUNDLE OR A-V NODAL) DEPOLARIZATIONS -- FASCICULAR DEPOLARIZATIONS -- VENTRICULAR DEPOLARIZATIONS -- Chapter 7 Supraventricular Tachycardias -- MECHANISMS OF SUPRAVENTRICULAR TACHYCARDIA -- METHODS OF EVALUATION.
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Nonsustained Ventricular Tachycardia -- Response of Sustained Uniform Ventricular Tachycardia to Stimulation -- Protocol for Stimulation During Sustained VT -- Response of Ventricular Tachycardia to Overdrive Pacing-Continuous Resetting (Entrainment) -- EFFECT OF DRUGS ON VENTRICULAR TACHYCARDIA -- LOCALIZATION OF THE SITE OF ORIGIN OF VENTRICULAR TACHYCARDIA -- General Methods of Catheter Mapping -- Relationship of Mapping Data to Heart Disease -- Sinus Rhythm Mapping -- Relationship of QRS Morphologies to Sites of Origin of Tachycardias -- Role of Pace Mapping in Determining the Site of Origin of Ventricular Tachycardia -- VENTRICULAR STIMULATION IN MISCELLANEOUS DISORDERS -- Chapter 11 Catheter and Surgical Ablation in the Therapy of Arrhythmias -- BIOPHYSICS OF CURRENT ABLATION TECHNIQUES -- Direct Current Ablation -- Irreversible Electroporation (Pulsed Electrical Field Ablation) -- Radiofrequency Energy -- Novel Concepts in RF ablation -- Laser Ablation -- Cryoablation -- Ultrasound -- CONTROL OF SUPRAVENTRICULAR ARRHYTHMIAS BY ABLATIVE TECHNIQUES -- Ablation of Atrioventricular Bypass Tracts and Variants of Preexcitation -- Localization of Bypass Tracts -- Catheter Ablation of Bypass Tracts. Ablation of Preexcitation Variants.

Sommario/riassunto

"The purpose of this book is to provide the budding electrophysiologist with an electrophysiologic approach to arrhythmias, which is predicated on the hypothesis that a better understanding of the mechanisms of arrhythmias will lead to more successful and rationally chosen therapy. As such, this book will stress the methodology required to define the mechanism and site of origin of arrhythmias so that safe and effective therapy can be chosen. The techniques suggested to address these issues and specific therapeutic interventions employed represent a personal view, one that is based on experience and, not infrequently, on intuition"--

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| Nota di contenuto | Introduction -- Geometric Water-Filling in RRM -- RRM in MIMO System -- RRM for Cognitive Network -- RRM in Wireless Communications with Energy Harvest Technology. |
| Sommario/riassunto | This brief introduces the fundamental theory and development of managing radio resources using a water-filling algorithm that can optimize system performance in wireless communication. Geometric Water-Filling (GWF) is a crucial underlying tool in emerging communication systems such as multiple input multiple output systems, cognitive radio systems, and green communication systems. Early chapters introduce emerging wireless technologies and provide a detailed analysis of water-filling. The brief investigates single user and multi-user issues of radio resource management, allocation of resources, and energy harvesting. Effective algorithms demonstrate the incredible potential capabilities of water-filling mechanisms. This brief is designed for researchers and professionals working with resource management and wireless communications. Advanced-level students in computer science and engineering will also find the information |

valuable.