



Electrotherapy of the Heart

By Schaldach, Max

Book Condition: New. Publisher/Verlag: Springer, Berlin | Technical Aspects in Cardiac Pacing | Since 1958, when the first cardiac pacing system was implanted, the exemplary collaboration between medicine and engineering has developed into an extremely successful therapy. The book highlights many of the recent and most important technological advances and shows the multidisciplinary nature of the technical task of pacemaker development which is based on the diverse components of physiology, electronics, physics, electrochemistry and the material sciences. | Basic Anatomy and Physiology of the Heart.- Position and Structure of the Heart.- Generation and Time Course of Excitation.- Excitation-Contraction Coupling and the Contraction Process.- Physiology of the Heartbeat.- The Pacemaker Potential and the Spread of Excitation.- Cardiac Mechanics.- Adjustments of the Heartbeat.- Neural-Humoral Control of Circulation.- Role of the Autonomic Nervous System in Cardiovascular Regulation.- Circulatory Regulation in Patients with Disorders of the Heart's Pacemaking or Conducting System.- Monitoring the Electrical Activity of the Heart.- Pathophysiology.- Disorders of the Pacemaking Function.- Disturbances of Conduction.- Therapy for Cardiac Rhythm Disturbances.- Electrotherapy in the Treatment of Cardiac Rhythm Disturbances.- Pacemaker Technology.- Implantable Pacemakers: History, Current Status and Trends.- Multiprogrammable Single-Chamber Pacemakers.- Technical Solution for the Multiprogrammable Single-Chamber Pacemaker.- Multiprogrammable Dual-Chamber Pacemaker.- Technical Solution for the Dual-Chamber Pacemaker.- Controlled and Regulated Pacemakers.- Control...



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