To provide unacquainted readers and non-specialists with the information necessary to develop pathophysiologically oriented clinical reasoning in this area. Includes bibliographical references (pages 235-260) and index. Book Cover; Title; Electricity and Electrophysiology; Molecular Physiology of Cardiac Ion Channels; The Cardiac Action Potential; Propagation through Cardiac Muscle; Neurohumoral Modulation of Cardiac Electrophysiologic Properties; Pharmacological Modulation of Cardi... An Essential Introduction has been added to your Cart. Add to Cart. Buy Now. This book provides undergraduate and postgraduate students with an accessible and comprehensive overview of the fascinating area of cardiac electrophysiology. Using plain language and well-designed illustrations, it attempts to overcome the preconceptions of the subject as difficult to approach, given the complexity of intricate electrical cellular processes within the human heart. Based on lectures presented to intercalating BSc medical students, this book has been designed with the undergraduate in mind, but offers enough scope to be worthwhile at the postgraduate level. Anatomy of the Cardiac Chambers The cardiac chambers may be visualized prior to a complex ablation using computed tomography (CT) or magnetic resonance imaging (MRI) or during the procedure using fluoroscopy, echocardiography and electroanatomic mapping (EAM). The majority of procedures rely on a certain amount of fluoroscopic imaging and often our anatomical understanding is based on the locations of the catheters in various views. The most common views in the electrophysiology laboratory are the right anterior oblique (RAO), left anterior oblique (LAO), posterior-anterior (PA) and left lateral. Besides covering normal aspects of cardiac cellular and tissue electrophysiology, An Introduction to Cardiac Electrophysiology illustrates recently acquired information on electronic abnormalities associated with cardiac disease and on molecular mechanisms of anti-arrhythmic drug action. The language used is suitable to address non-specialists, and the reference to physics has been limited to very basic principles. Enclosed with the book is an interactive computer model for cardiac action potential, that can be easily run on any IBM compatible PC, thus allowing readers to test the effects of c...