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Nota di contenuto	New Arrhythmia Technologies; Contents; List of Contributors; Preface; Part I: Advances in antiarrhythmic pharmacologic therapy; 1 New antiarrhythmic pharmacologic therapies and regulatory issues in antiarrhythmic drug development; 2 New frontiers in antithrombotic therapy for atrial fibrillation; Part II: Future of antiarrhythmic therapy; 3 Principles of pharmacogenomics: Focus on arrhythmias; 4 The cardiac sodium-channel carboxy terminus: predicted and detected structure provide a novel target for antiarrhythmic drugs development 5 Embryonic stem-cell-derived cardiomyocytes as a model for arrhythmia 6 Gene and cell therapy for sinus and AV nodal dysfunction; 7 Gene therapy for cardiac tachyarrhythmias; Part III: Monitoring, noninvasive mapping, risk assessment, and external defibrillation; 8 New developments in noninvasive rhythm monitoring, implantable hemodynamic monitoring, functional status monitoring and noninvasive mapping; 9 Techniques of prediction of arrhythmia

occurrence and stratification for sudden cardiac death  
10 Beta-blocker efficacy in long-QT syndrome patients with mutations in the pore and nonpore regions of the hERG potassiumchannel gene  
11 New developments in out-of-hospital cardiac defibrillation: evaluation of AED strategies; Part IV: Advances in pacing; 12 Sensor and sensor integration; 13 New electrode and lead designs for pacemakers; 14 Current concepts in intravascular pacemaker and defibrillator lead extraction; 15 Left ventricular epicardial lead implantation: Anatomy, techniques, and tools; 16 New resynchronization lead systems and devices; 17 New indications for pacing  
Part V: Advances in implantable defibrillators 18 Implantable defibrillator sensing and discrimination algorithms; 19 Arrhythmia prevention and termination algorithms; 20 New lead designs and lead-less systems; 21 Optimization of defibrillation function; 22 Remote web-based device monitoring; 23 New ICD indications; Part VI: Advances in catheter surgical ablation; 24 Advances in surgical ablation devices for atrial fibrillation; 25 Epicardial access: present and future applications for interventional electrophysiologists; 26 Advances in catheter control devices  
27 Advances in energy sources in catheter ablation28 New ablation paradigms: Anatomic ablation of complex arrhythmia substrates; Index

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#### Sommario/riassunto

New Arrhythmia Technologies provides a complete discussion of recent, emerging, and future arrhythmia technologies. This forward-thinking book details successful trials and investigates areas of research that have not yet reached the trial phase. The elite panel of authors have explored fresh information on:advances in antiarrhythmic pharmacologis therapy advances in monitoring, risk assessment, and noninvasive mapping advances in pacing therapy advances in implantable defibrillators advances in catheter and surgical ablation

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