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Titolo	Implantable cardiac devices technology / / David Korpas
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ISBN	1-4614-6907-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (123 p.)
Disciplina	617.4/120645
Soggetti	Electronics in cardiology Cardiovascular instruments, Implanted
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	Pacemaker history and development -- Basics of pacing -- Cardiac anatomy and physiology -- Cardiac rhythm disorders, pathophysiology, pharmacological treatment.- Pacing modes. -Indication for implants. - Leads.-Pacing systems.-Pacemaker timing.-Implantable cardioverters-defibrillator.- Cardiac resynchronization therapy -- Implant, explant and replacement of systems -- Patient follow-ups -- Electromagnetic compatibility and technical requirements.
Sommario/riassunto	Development in a majority of medicine branches today is based on technological advancement. This is the case in cardiology, where medical devices designed to correct heart rhythm – pacemakers, cardioverters-defibrillators and biventricular systems – are implanted in order to help a sick heart. Medical pacing devices today are only developed and produced globally by a several producers who make different technical solutions, algorithms, system parameters etc. The book Implantable Cardiac Devices Technology is targeted at biomedical, clinical engineers, technicians in practice, students of biomedical disciplines, and all medical staff who are required to understand the basics of pacing technology. The book is comprised of fourteen chapters that are further subdivided according to specific topics. Chapters dealing with basic heart anatomy, physiology and arythmology are included for the sake of comprehensiveness. Chapters avoid the description of special functions, but cover general procedures and parameters common for the systems of all producers.

The book is intended to serve as a monothematic textbook. In order to make the text comprehensible and well arranged for a reader, references to professional literature are only provided once in a respective chapter.