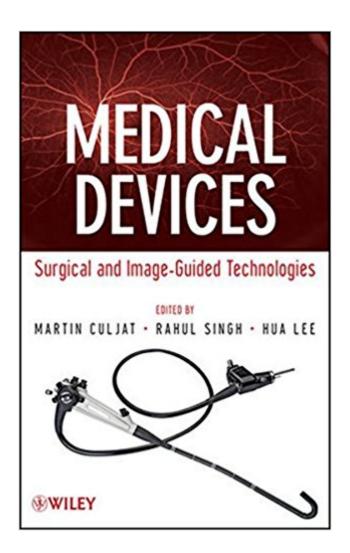


The book was found

Medical Devices: Surgical And Image-Guided Technologies





Synopsis

Addressing the exploding interest in bioengineering for healthcare applications, this book provides readers with detailed yet easy-to-understand guidance on biomedical device engineering. Written by prominent physicians and engineers, Medical Devices: Surgical and Image-Guided Technologies is organized into stand-alone chapters covering devices and systems in diagnostic, surgical, and implant procedures. Assuming only basic background in math and science, the authors clearly explain the fundamentals for different systems along with such topics as engineering considerations, therapeutic techniques and applications, future trends, and more. After describing how to manage a design project for medical devices, the book examines the following: Instruments for laparoscopic and ophthalmic surgery, plus surgical robotics Catheters in vascular therapy and energy-based hemostatic surgical devices Tissue ablation systems and the varied uses of lasers in medicine Vascular and cardiovascular devices, plus circulatory support devices Ultrasound transducers, X-ray imaging, and neuronavigation An absolute must for biomedical engineers, Medical Devices: Surgical and Image-Guided Technologies is also an invaluable guide for students in all engineering majors and pre-med programs interested in exploring this fascinating field.

Book Information

Hardcover: 456 pages

Publisher: Wiley; 1 edition (November 12, 2012)

Language: English

ISBN-10: 0470549181

ISBN-13: 978-0470549186

Product Dimensions: 6.4 x 1.1 x 9.6 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #3,369,483 in Books (See Top 100 in Books) #38 inà Books > Textbooks > Medicine & Health Sciences > Medicine > Special Topics > Lasers in Medicine #54 inà Books > Medical Books > Medicine > Lasers in Medicine #90 inà Â Books > Textbooks > Medicine &

Health Sciences > Reference > Instruments & Supplies

Customer Reviews

A comprehensive introduction to biomedical device engineering Addressing the exploding interest in bioengineering for healthcare applications, this book provides readers with detailed yet easy-to-understand guidance on biomedical device engineering. Written by prominent physicians

and engineers, Medical Devices: Surgical and Image-Guided Technologies is organized into stand-alone chapters covering devices and systems in diagnostic, surgical, and implant procedures. Assuming only basic background in math and science, the authors clearly explain the fundamentals for different systems along with such topics as engineering considerations, therapeutic techniques and applications, future trends, and more. After describing how to manage a design project for medical devices, the book examines the following: Instruments for laparoscopic and ophthalmic surgery, plus surgical robotics Catheters in vascular therapy and energy-based hemostatic surgical devices Tissue ablation systems and the varied uses of lasers in medicine Vascular and cardiovascular devices, plus circulatory support devices Ultrasound transducers, X-ray imaging, and neuronavigation. An absolute must for biomedical engineers, Medical Devices: Surgical and Image-Guided Technologies is also an invaluable guide for students in all engineering majors and pre-med programs interested in exploring this fascinating field.

MARTIN CULJAT, PhD, is Adjunct Assistant Professor in the UCLA Departments of Bioengineering and Surgery and the Engineering Research Director of the UCLA Center for Advanced Surgical and Interventional Technology (CASIT), a research center that promotes collaboration between medicine and engineering. RAHUL SINGH, PhD, is Adjunct Assistant Professor in the UCLA Departments of Bioengineering and Surgery. He leads several collaborative research projects at the UCLA Center for Advanced Surgical and Interventional Technology (CASIT). HUA LEE, PhD, is Professor in the Department of Electrical and Computer Engineering at UC Santa Barbara. Well known for his pioneering research laboratory, Dr. Lee is also the author of three other books on imaging technology and engineering.

I am reading this book almost cover to cover. A must read for pre-med students and medical device sales managers. This book leads you step by step through product development to FDA approval in the field of image guided devices. It is a great overveiw.

Download to continue reading...

Medical Devices: Surgical and Image-Guided Technologies Imagery and Disease: Image-Ca, Image-Sp, Image-Db: A Diagnostic Tool for Behavioral Medicine The Body Image Workbook for Teens: Activities to Help Girls Develop a Healthy Body Image in an Image-Obsessed World ISO 14971:2007, Medical devices - Application of risk management to medical devices ISO 14971:2000, Medical devices -- Application of risk management to medical devices Clinical Companion to Medical-Surgical Nursing: Assessment and Management of Clinical Problems, 9e (Lewis, Clinical

Companion to Medical-Surgical Nursing: Assessment and Management of C) Clinical Companion to Medical-Surgical Nursing: Assessment and Management of Clinical Problems, 8e (Lewis, Clinical Companion to Medical-Surgical Nursing: Assessment and Management of C) Medical-Surgical Nursing - 2-Volume Set: Assessment and Management of Clinical Problems, 9e (Medical-Surgical Nursing (Lewis) 2 Vol Set) Study Guide for Medical-Surgical Nursing: Assessment and Management of Clinical Problems, 9e (Study Guide for Medical-Surgical Nursing: Assessment & Management of Clinical Problem) Delmar's Medical-Surgical Nursing Care Plans (Rodgers, Thomson Delmar Learning's Medical-Surgical Nursing) Lippincott's Review for Medical-Surgical Nursing Certification (LWW, Springhouse Review for Medical-Surgical Nursing Certification) Medical-Surgical Nursing: Clinical Reasoning in Patient Care (6th Edition) (Medical Surgical Nursing - Lemone) Focus on Adult Health: Medical-Surgical Nursing (Pellico Medical-Surgical) Medical-Surgical Nursing: Patient-Centered Collaborative Care, Single Volume, 7e (Ignatavicius, Medical-Surgical Nursing, Single Vol) Guided Meditation: 30 Minute Guided Meditation for Sleep, Relaxation, & Stress Relief ((Self Hypnosis, Affirmations, Guided Imagery & Relaxation Techniques) Study Guide with Lab Manual for the Association of Surgical Technologists' Surgical Technology for the Surgical Technologist: A Positive Care Approach, 5th Devices and Designs: Medical Technologies in Historical Perspective (Science, Technology and Medicine in Modern History) Medical Terminology: Medical Terminology Easy Guide for Beginners (Medical Terminology, Anatomy and Physiology, Nursing School, Medical Books, Medical School, Physiology, Physiology) Medical Terminology: Medical Terminology Made Easy: Breakdown the Language of Medicine and Quickly Build Your Medical Vocabulary (Medical Terminology, Nursing School, Medical Books) Prostheses: Design, Types, and Complications (Biomedical Devices and Their Applications; Medical Devices and Equipment)

Contact Us

DMCA

Privacy

FAQ & Help