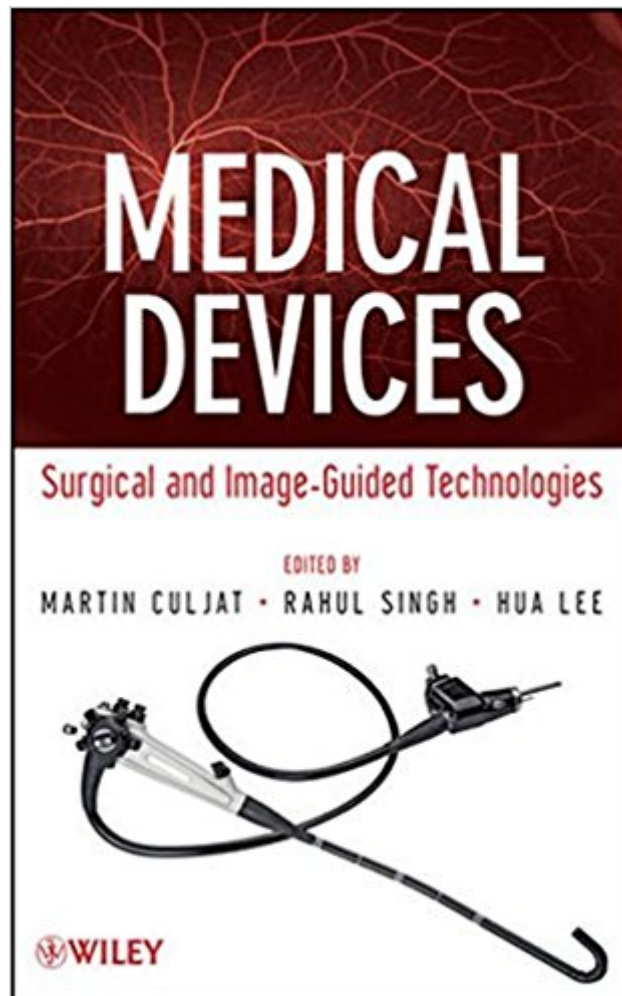




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Medical Devices: Surgical And Image-Guided Technologies



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 in Books > Textbooks > Medicine & Health Sciences > Medicine > Special Topics > Lasers in Medicine #54 in Books > Medical Books > Medicine > Lasers in Medicine #90 in Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies

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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.

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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 overview.

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