



Medical Devices: Surgical and Image-Guided Technologies

Martin Culjat, Rahul Singh, Hua Lee

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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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