



Biomedical Engineering and Design Handbook, Volume 2: Volume 2: Biomedical Engineering Applications

Myer Kutz

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A State-of-the-Art Guide to Biomedical Engineering and Design Fundamentals and Applications

The two-volume *Biomedical Engineering and Design Handbook*, Second Edition, offers unsurpassed coverage of the entire biomedical engineering field, including fundamental concepts, design and development processes, and applications. This landmark work contains contributions on a wide range of topics from nearly 80 leading experts at universities, medical centers, and commercial and law firms.

Volume 2 provides timely information on breakthrough developments in medical device design, diagnostic equipment design, surgery, rehabilitation engineering, prosthetics design, and clinical engineering. Filled with more than 400 detailed illustrations, this definitive volume examines cutting-edge design and development methods for innovative devices, techniques, and treatments.

Volume 2 covers:

- Medical Product Design
- FDA Medical Device Requirements
- Cardiovascular Devices
- Design of Respiratory Devices
- Design of Artificial Kidneys
- Design of Controlled-Release Drug Delivery Systems
- Sterile Medical Device Package Development
- Design of Magnetic Resonance Systems
- Instrumentation Design for Ultrasonic Imaging
- The Principles of X-Ray Computed Tomography
- Nuclear Medicine Imaging Instrumentation
- Breast Imaging Systems
- Surgical Simulation Technologies
- Computer-Integrated Surgery and Medical Robotics
- Technology and Disabilities
- Applied Universal Design
- Design of Artificial Arms and Hands for Prosthetic Applications
- Design of Artificial Limbs for Lower Extremity Amputees
- Wear of Total Knee and Hip Joint Replacements
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