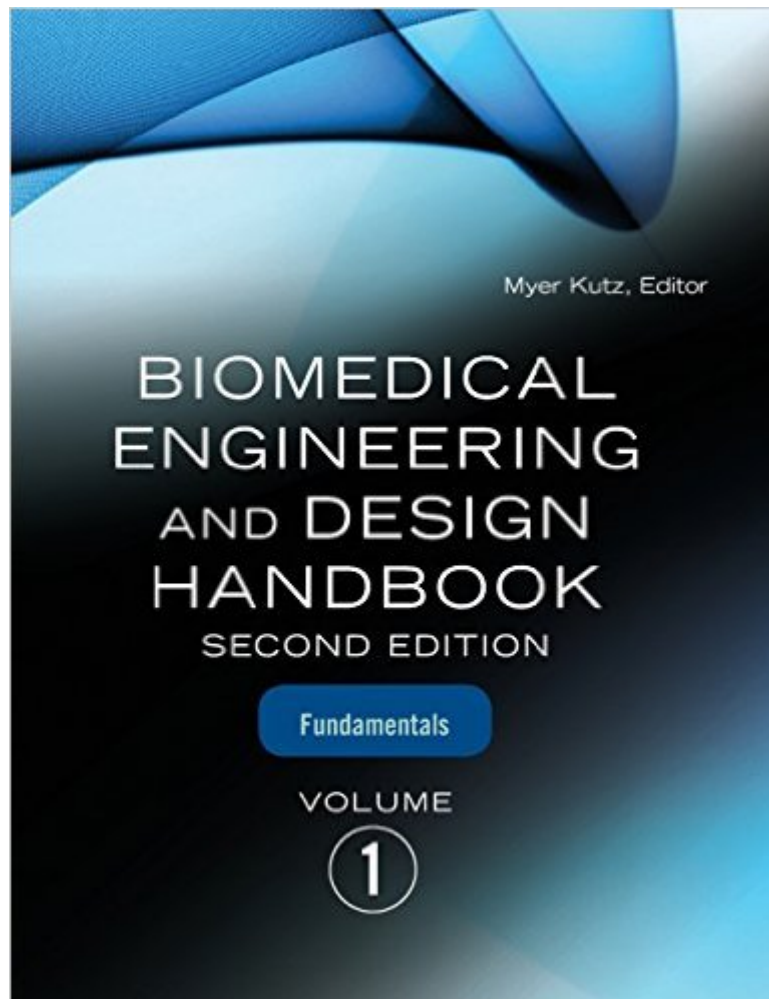


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Biomedical Engineering And Design Handbook, Volume 1: Volume I: Biomedical Engineering Fundamentals



Synopsis

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 1 focuses on the basics of biomedical engineering, including biomedical systems analysis, biomechanics of the human body, biomaterials, and bioelectronics. Filled with more than 500 detailed illustrations, this superb volume provides the foundational knowledge required to understand the design and development of innovative devices, techniques, and treatments. Volume 1 covers:

- Modeling and Simulation of Biomedical Systems
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- Dental Materials
- Orthopaedic Biomaterials
- Biomaterials to Promote Tissue Regeneration
- Bioelectricity
- Biomedical Signal Analysis
- Biomedical Signal Processing
- Intelligent Systems and Bioengineering
- BioMEMS

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