



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

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 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
- Bioheat Transfer
- Physical and Flow Properties of Blood
- Respiratory Mechanics and Gas Exchange
- Biomechanics of the Respiratory Muscles
- Biomechanics of Human Movement
- Biomechanics of the Musculoskeletal System
- Biodynamics
- Bone Mechanics
- Finite Element Analysis
- Vibration, Mechanical Shock, and Impact
- Electromyography
- Biopolymers
- Biomedical Composites
- Bioceramics
- Cardiovascular Biomaterials
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