



# Applied Biomedical Engineering Mechanics

*Dhanjoo Ghista*

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## **Applied Biomedical Engineering Mechanics** Dhanjoo Ghista

Combining topics from numerous applications in biomechanics, **Applied Biomedical Engineering Mechanics** demonstrates how to analyze physiological processes from an engineering perspective and apply the results to tertiary medical care. The book extends its discussion to the investigation of diagnostic and surgical procedures. It also presents guidelines for prostheses design and explains how to optimize performance in sports games such as soccer, baseball, and gymnastics.

Using a problem-based format, the book explains how to:

- Formulate diagnostic and interventional procedures, based on the analysis of physiological and organ system-based processes
- How human anatomical structures and physiological processes are designed for optimal functionality
- Develop orthopedic surgical approaches, using pre-surgical analysis
- Assess and promote fitness, and analyze sports games to maximize competency

The world-class instruction presented within **Applied Biomedical Engineering Mechanics** clearly demonstrates how to quantify physiological processes in order to formulate solutions to various medical problems.

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