Essential Computational Modeling for the Human Body

Description:


Computational (Mathematical) Modeling is used by scientists and researchers with various applications in chemical, biological, behavioral, environmental sciences, etc. This guide presents essential research techniques for analysis and essential concrete examples of computational models, while supplying a wide range of commonly used methods and applications, followed by various numerical simulations.

Provides various viewpoints of methods and applications are available for researchers to choose and experiment with; Numerical analysis and open problems useful for experimentation; Computational Models useful for surgery simulations;

Contents:

1. Mathematical Modeling and Numerical Simulation of the Cardiovascular System
2. Human Models for Crash and Impact Simulation
3. Soft Tissue Modeling for Surgery Simulation

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