Introduction to Cell Mechanics and Mechanobiology

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Introduction to Cell Mechanics and Mechanobiology is designed for a one-semester course in the mechanics of the cell offered to advanced undergraduate and graduate students in biomedical engineering, bioengineering, and mechanical engineering. It teaches a quantitative understanding of the way cells detect, modify, and respond to the physical properties within the cell environment. Coverage includes the mechanics of single molecules, polymers, polymer networks, two-dimensional membranes, whole-cell mechanics, and mechanobiology, as well as primer chapters on solid, fluid, and statistical mechanics, and cell biology.

Introduction to Cell Mechanics and Mechanobiology is the first cell mechanics textbook to be geared specifically toward students with diverse backgrounds in engineering and biology.

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