



Mechanics of Elastic Biomolecules

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A representative cross-section of elastic biomolecules is covered in this volume, which combines seventeen contributions from leading research groups. State-of-the-art molecular mechanics experiments are described dealing with the elasticity of DNA and nucleoprotein complexes, titin and titin-like proteins in muscle, as well as proteins of the cytoskeleton and the extracellular matrix.

The book speaks particularly to cell biologists, biophysicists, or bioengineers, and to senior researchers and graduate students alike, who are interested in recent advances in single-molecule technology (optical tweezers technique, atomic force microscopy), EM imaging, and computer simulation approaches to study nanobiomechanics. The findings discussed here have redefined our view of the role mechanical signals play in cellular functions and have greatly helped improve our understanding of biological elasticity in general.



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