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Editors

Advances in Soft Matter Mechanics

 **Lecture Notes in Mechanics**
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Bo Song



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Advances in Soft Matter Mechanics Shaofan Li, Bohua Sun, 2012-09-30 *Advances in Soft Matter Mechanics* is a compilation and selection of recent works in soft matter mechanics by a group of active researchers in the field. The main objectives of this book are first to disseminate the latest developments in soft matter mechanics in the field of applied and computational mechanics and second to introduce soft matter mechanics as a sub discipline of soft matter physics. As an important branch of soft matter physics, soft matter mechanics has developed rapidly in recent years. A number of the novel approaches discussed in this book are unique, such as the coarse grained finite element method for modeling colloidal adhesion, entropic elasticity, meshfree simulations of liquid crystal elastomers, simulations of DNA, etc. The book is intended for researchers and graduate students in the field of mechanics, condensed matter physics, and biomaterials. Dr. Shaofan Li is a professor of the University of California Berkeley, U.S.A. Dr. Bohua Sun is a professor of Cape Peninsula University of Technology, South Africa. *Advances in Soft Matter Mechanics*, 2012-10-20

Advances in Applied Mechanics, 2022-11-04 *Advances in Applied Mechanics* Volume 55 in this ongoing series highlights new advances in the field with this new volume presenting interesting chapters on topics such as: Towards stochastic multi scale methods in continuum solid mechanics, Fracture in soft elastic materials, Continuum description, molecular aspects and applications, Bio-Chemo Mechanical Coupling, Models of Soft Biological Materials, A Review, Viscoelasticity and cell swirling motion, Model selection and sensitivity analysis in the biomechanics of soft tissues, A case study on the human knee meniscus, Oncology and mechanics, Landmark studies and promising clinical. Provides the authority and expertise of leading contributors from an international board of authors. Presents the latest release in the *Advances in Applied Mechanics* series. Edited by some of the best scientists in the field.

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biophysicists biochemists medical researchers and all other professionals with interest in how cells produce and respond to mechanical loads

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Advances in Materials, Mechanics and Manufacturing Fakher Chaari, Maher Barkallah, Anas Bouguecha, Bassem Zouari, Mohamed Taoufik Khabou, Mounir Kchaou, Mohamed Haddar, 2019-09-17 This book reports on cutting edge findings concerning characterization of material behavior material modeling and simulation and applications in the field of manufacturing Based on the second International Conference on Advanced Materials Mechanics Manufacturing A3M2018 organized by the Laboratory of Mechanics Modeling and Manufacturing LA2MP of the National School of Engineers of Sfax Tunisia the book covers a variety of topics such as experimental analysis of material plasticity and fatigue numerical simulation of material behavior and optimization of manufacturing processes such as cutting and injection among others It offers a timely snapshot on current research and applications offering a bridge to facilitate communication and collaboration between academic and industrial researchers

New Advances in Mechanisms, Mechanical Transmissions and Robotics Ioan Doroftei, Erwin-Christian Lovasz, 2025-05-02 This book gathers the proceedings of the Joint International Conference of the XIV International Conference on Mechanisms and Mechanical Transmissions MTM and the XXVI International Conference on Robotics Robotics held in Ia i Romania on November 14 16 2024 It addresses the applications of mechanisms and transmissions in several modern technical fields such as mechatronics biomechanics machines micromachines robotics and apparatus In doing so it combines theoretical findings and experimental testing The book presents peer reviewed papers written by researchers specialized in mechanism analysis and synthesis dynamics of mechanisms and machines mechanical transmissions biomechanics precision mechanics mechatronics micromechanisms and microactuators computational and experimental methods CAD in mechanism and machine design mechanical design of robot architecture parallel robots mobile robots micro and nano robots sensors and actuators in robotics intelligent control systems biomedical engineering teleoperation haptics and virtual reality

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