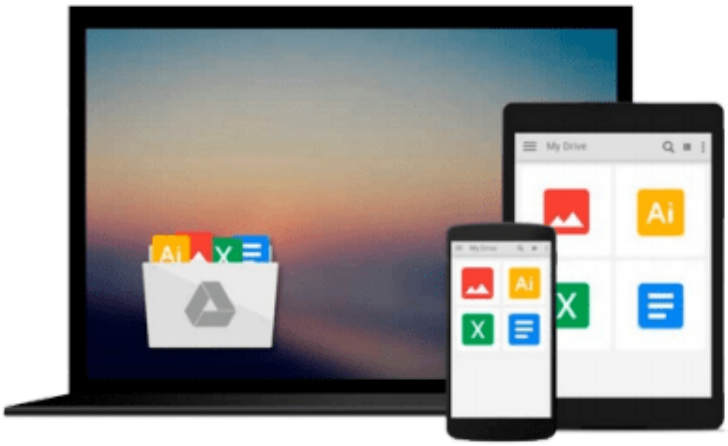

Complex Fluids in Biological Systems: Experiment, Theory, and Computation (Biological and Medical Physics, Biomedical Engineering)

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This book serves as an introduction to the continuum mechanics and mathematical modeling of complex fluids in living systems. The form and function of living systems are intimately tied to the nature of surrounding fluid environments, which commonly exhibit nonlinear and history dependent responses to forces and displacements. With ever-increasing capabilities in the visualization and manipulation of biological systems, research on the fundamental phenomena, models, measurements, and analysis of complex fluids has taken a number of exciting directions. In this book, many of the world's foremost experts explore key topics such as:

- Macro- and micro-rheological techniques for measuring the material properties of complex biofluids and the subtleties of data interpretation
- Experimental observations and rheology of complex biological materials, including mucus, cell membranes, the cytoskeleton, and blood
- The motility of microorganisms in complex fluids and the dynamics of active suspensions
- Challenges and solutions in the numerical simulation of biologically relevant complex fluid flows

This volume will be accessible to advanced undergraduate and beginning graduate students in engineering, mathematics, biology, and the physical sciences, but will appeal to anyone interested in the intricate and beautiful nature of complex fluids in the context of living systems.

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