

Fundamentals of Polymer Physics and Molecular Biophysics

By Himadri B. Bohidar

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Macromolecules in solutions can be distinctly characterised by their transport behaviour in solution phase. The study of the transport processes includes diffusion coefficient, sedimentation coefficient, intrinsic viscosity and friction constant. The question arises as to how to explicitly characterise the macromolecules from the data of coefficients. This book answers this question in a systematic manner. It provides physical interpretation of the data obtained in macromolecular transport phenomena in a given system and also addresses some important issues and concepts related to biopolymers such as proteins and nucleic acids. The application of concepts like conformational properties and salient physicochemical features of protein and nucleic acids is also elucidated in the book. Based on the molecular structure, it provides the essential concepts which can be used to model and analyse the static and transport behaviour of polymers and biopolymers.

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Review
"... an excellent first step to training future researchers in biological soft matter. I recommend it as a resource for advanced physics students interested in this new and exciting field or for professors wishing to teach a graduate-level course on the topic. The text is also a welcome and succinct reference for experimentalists in this interdisciplinary field."
Rae M. Robertson-Anderson, Physics Today

About the Author
Himadri B. Bohidar is an established researcher in the field of polymer science and molecular biophysics, and has 23 years of teaching experience. He has pursued research work for more than eight years at various universities including Purdue University, USA; the University of Oslo, Norway; the University of Grenoble, France; and the University of New South Wales, Australia. He has given many invited talks at scientific conferences, both national and international, and is co-editor of the book Polymer Gels: Fundamentals and Applications (2002). Presently, he is working as Chairperson of the Special Center for Nanosciences at Jawaharlal Nehru University, Delhi.

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