

unpack important polymer-physics concepts largely found in Masao Doi and Samuel Edwards's *The Theory of Polymer Dynamics* (Oxford University Press, 1986) and Pierre-Gilles de Gennes's *Scaling Concepts in Polymer Physics* (Cornell University Press, 1979). Bohidar discusses both static and transport properties in varying solvent conditions and concentrations: Essential static properties include radius of gyration, hydrodynamic radius, persistence length, and mesh size; transport phenomena of interest include diffusion, sedimentation, and viscosity. He also covers solvent conditions and concentration regimes, discussing excluded volume effects, blob theory, and the key dynamical models controlling different regimes: the Zimm, Rouse, and reptation models. Throughout the book, he emphasizes the universal scaling laws that connect experimentally accessible transport and configurational quantities to intrinsic molecular structure.

The latter half of the book introduces key concepts in molecular biophysics—for example, structural properties of nucleic acids, proteins, and polysaccharides. It also discusses protein charge, folding kinetics, helix-coil transitions, enzyme kinetics, DNA charge screening, and persistence length. Many of the same topics are also covered in Philip Nelson's *Biological Physics* (updated edition, W. H. Freeman, 2013). Bohidar closes with a “special topics” chapter that highlights two of his research interests: biopolymeric nanoparticles and coacervation (electrostatically driven liquid–liquid phase separation).

Important contemporary biopolymer problems Bohidar does not address relate to cytoskeleton polymers and networks—in particular actin, microtubules, intermediate filaments, and crosslinking proteins. Also missing is a discussion of single-molecule biophysics techniques, such as biopolymer tracking by fluorescence microscopy and spectroscopy and biopolymer manipulation and force measurements with optical tweezers. Macromolecular crowding is only briefly mentioned.

Bohidar's bibliography is thorough and includes many foundational polymer texts, including the aforementioned ones. Because his discussion of rheological properties is minimal, Bohidar omits such texts as Ronald Larson's *Constitutive Equations for Polymer*

Melts and Solutions (Butterworth, 1988).

Although I would like to have seen a more seamless integration of polymer physics and molecular biophysics, I still regard *Fundamentals of Polymer Physics and Molecular Biophysics* as 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.

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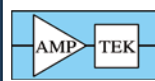


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