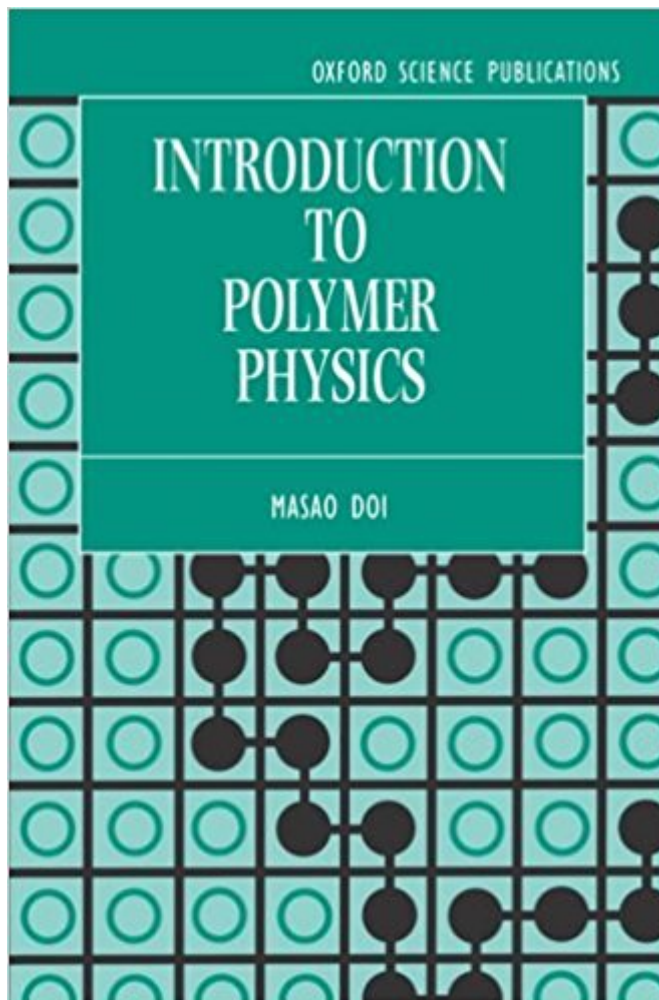




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Introduction To Polymer Physics



Synopsis

Polymers are very large molecules consisting of many atoms covalently bonded like a chain. Their structure gives unique physical properties to polymer solutions. This outstanding textbook gives a clear and concise introduction to the modern theory of polymer physics. It describes basic concepts and methods and explains the statistical properties of the assembly of chain-like molecules; topics include scaling theory, concentration fluctuation, gels, and reptation. This is an ideal volume for graduate students and advanced undergraduates in polymer physics.

Book Information

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Customer Reviews

Text: English (translation) Original Language: Japanese --This text refers to an out of print or unavailable edition of this title.

M. Doi is at Nagoya University.

Reading the reviews for Theory of Polymer Dynamics, I purchased this book and it is indeed a great introduction to polymer physics.

The finest aspect of the book is its thickness; in just over 100 pages Doi essentially summarises everything in Polymer Dynamics. In some sense the book is meant as a bridge between the graduate level courses on Polymer Dynamics/Physics and book: The Theory of Polymer Dynamics and hence is assessible only with some background on basics. Nevertheless its serves its purpose

pretty well.

It's short and to the point, explaining all the fundamentals needed to progress in this field.

Firstly, this book is NOT for someone wanting an introduction to polymer science. There is little here that would be of use in a first course in polymers. The book is very slim (a scarce 113 pages), divided into five chapters covering individual polymer chains, melts, gels, dynamics in dilute solutions, and finally dynamics in the entanglement regime. The intense detail of Doi and Edwards is left out but the level of mathematical description is comparable. Strongly recommended as an introduction to polymer physics, especially because it covers a lot of important issues in a very brief, easy-to-understand, but rigorous fashion.

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