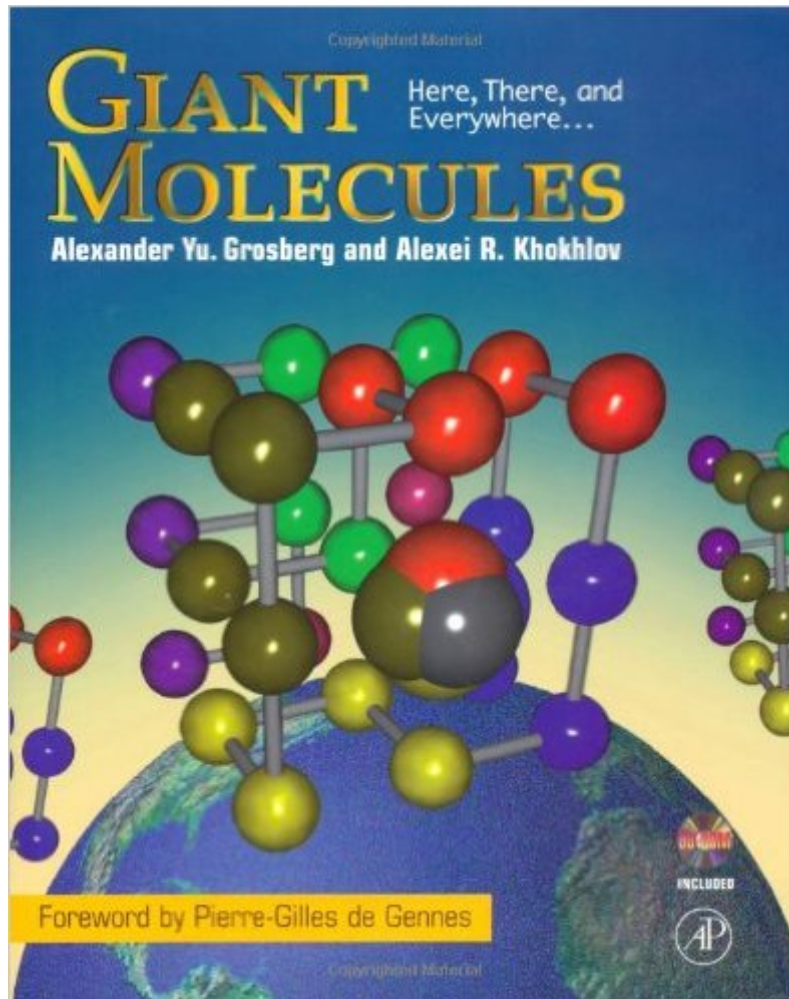


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# Giant Molecules: Here, There, And Everywhere



## Synopsis

Lively, informative, and easy-to-understand, this book is a fascinating read for scientists across many disciplines and the educated/interested layperson. Beautifully presented with eight pages of color illustrations, *Giant Molecules: Here, There, and Everywhere* addresses the nature and role of giant molecules, which are the "source" for polymer chains. Grosberg and Khokhlov explain what giant molecules are, how they are formed, where they are applied, and why they are important in everyday life and in science. The simple, non-technical style is complemented by full-color illustrations. A CD-ROM enclosed with the book provides simulation of typical behavior of polymers, which is an extremely useful tool for teaching purposes. This feature will be of special interest to the expert in polymers across many disciplines, including molecular biology, materials science, physics, and chemistry. The CD-ROM also allows the user to create a broad variety of movies simulating an almost arbitrary polymer system, customized to the user's specific needs. *Giant Molecules* presents the subject matter much more clearly than the standard scientific text. It provides a unique opportunity to grasp the most advanced methods of polymer physics with the guidance of world leaders in the field. The book features a foreword written by Pierre-Gilles de Gennes, a Nobel Prize Laureate, and each chapter in this fascinating volume is preceded by a quote from such notable sources as Goethe, St. Exupery, and Mark Twain. Written in a simple, non-scientific style, *Giant Molecules* should be understandable to interested readers at any level, and the color illustrations and CD-ROM add to the appeal of this lively book.

**Key Features\***

- Includes a foreword written by Pierre-Gilles de Gennes, Nobel Laureate\*
- Written at a level both the scientist and non-scientist can appreciate\*
- Uses a clear, comprehensive manner to describe giant molecules\*
- Features a CD-ROM with movies showing the simulation of polymer behavior\*
- Presents a simple approach to the most complex phenomena, using very limited mathematics\*
- Considers aspects of polymers as materials

## Book Information

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## Customer Reviews

I am a physics professor working on semiconductor materials. Polymer is not my area, but they always attracts me a lot. I can't believe this great book hasn't been reviewed yet. Yes, it is written by two Russian scientists. But who said Russians can only write rigorous math books? This book is not a monograph but for everyone interested in polymer physics, material or popular science. It explains a lot of phenomena in a clear, concise and humorous language. There is a little math, not hard at all. Freshmen level calculus would be sufficient to understand the book. In fact, all through the book, the authors were showing the interactions between different factors. These factors are the reason that polymers have so many tantalizing and sometimes contradicting properties. To explain those, math is necessary. The movies included in the accompanied CD are great, think about how much work is put on making them!

This book is extremely interesting and well written, but ... it's full of bugs in the formulas. Too many formulas are missing key symbols like as +, -, \*, >, and many more, and are hard to read or understand. Just as example, use Look Inside to browse equation (8.9) at page 159, or equation (8.13) at page 160; you will immediately notice that something important is missing. These misprints are really annoying; such a nice book would deserve more care in editing.

There's an excellent first edition (with one more author) that's basically as good, but is available much cheaper. BTW, it also has the same CDROM.

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