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One often hears that the tenets of polymer physics do not apply to problems in protein biophysics. A deep understanding of the concepts, so lucidly explained by Rubinstein and Colby should catalyze a change in one's views about the place for polymer physics in the study of biomacromolecules.

[Polymer Physics \(Chemistry\): Amazon.co.uk: Rubinstein ...](#)

Polymer Physics thoroughly details the fundamental concepts of polymer melts, solutions, and gels in terms of both static structure and dynamics. It goes beyond other introductory polymer texts, deriving the essential tools of the physical polymer chemist or engineer without skipping any steps. The book is divided into four parts.

[Polymer Physics by Michael Rubinstein - Goodreads](#)

[Polymer physics. Edited by Michael Rubinstein and Ralph H Colby Oxford University Press, Oxford, 2003. ISBN 019852059X. pp 440](#)

[Polymer physics. Edited by Michael Rubinstein and Ralph H ...](#)

M. Rubinstein, Ralph H. Colby This is a polymer physics textbook for upper level undergraduates and first year graduate students. Any student with a working knowledge of calculus, physics and chemistry should be able to read this book.

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Michael Rubinstein Aleksandar S. Vesic Distinguished Professor The research of the Rubinstein group is in the field of polymer theory and computer simulations. The unique properties of polymeric systems are due to the size, topology and interactions of the molecules they are made of.

Michael Rubinstein | Duke Mechanical Engineering and ...

Between 1983 and 1985 Michael Rubinstein was a post-doctoral fellow with E. Helfand at AT&T Bell Laboratories in Murray Hill, NJ where he started his research in polymer physics. In 1985 Michael Rubinstein joined Research Laboratories of Eastman Kodak Company in Rochester, NY where he worked for 10 years in different areas of polymer theory.

Rubinstein, Prof. Michael – EPF2019

Polymers Physics Michael Rubinstein University of North Carolina at Chapel Hill . 1. “ Real ” Chains 2. Thermodynamics of Mixtures 3. Polymer Solutions Outline . Summary of Ideal Chains Ideal chains: no interactions between monomers separated by many bonds Mean square end-to-end distance of ideal linear polymer  $R^2 = Nl^2$  Mean square radius of gyration of ideal linear polymer  $\frac{6}{5} R^2 = \frac{3}{2} Nl^2$  ...

Polymers Physics - Yale University

- Strong dependence of polymer size on environment/solvent conditions suggests a big role of interactions.
- Ideal polymer has no interactions between monomers, except between neighbors along the chain.
- Just like ideal gas may have all sorts of rotations and vibrations in the molecule, but no interactions between molecules.

Introduction to polymer physics Lecture 1

This is a polymer physics textbook for upper level undergraduates and first year graduate students. Any student with a working knowledge of calculus, physics and chemistry should be able to read this book. The essential tools of the polymer physical chemist or engineer are derived in this book without skipping any steps.

9780198520597 - Polymer Physics Chemistry by Rubinstein ...

Professor Michael Rubinstein. Dept of Chemistry. University of North Carolina. Professor Ralph H. Colby. Dept of Materials Science and Engineering. The Pennsylvania State University, USA. Description. This is a polymer physics textbook for upper level undergraduates and first year graduate students. Any student with a

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Polymer physics by Rubinstein, Michael, Colby, Ralph H

Description This is a polymer physics textbook for upper level undergraduates and first year graduate students. Any student with a working knowledge of calculus, physics and chemistry should be able to read this book. The essential tools of the polymer physical chemist or engineer are derived in this book without skipping any steps.

Polymer Physics : Michael Rubinstein : 9780198520597

Mechanical Engineering & Materials Science, Biomedical Engineering, Physics, Chemistry, Duke -  
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Michael Rubinstein - Google Scholar

One often hears that the tenets of polymer physics do not apply to problems in protein biophysics. A deep understanding of the concepts, so lucidly explained by Rubinstein and Colby should catalyze a change in one's views about the place for polymer physics in the study of biomacromolecules.

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