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Polymer Physics by Michael Rubinstein and Raplh Colby is a fascinating introduction to the realm of polymer statics, dynamics and phase behavior. It embodies the depth of Flory's classic text on Principals of Polymer Chemistry, classic delight of de Gennes' Scaling concepts in Polymers and the rigor of Theory of Polymer Dynamics by Doi and Edwards.

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Polymer physics is the field of physics that studies polymers, their fluctuations, mechanical properties, as well as the kinetics of reactions involving degradation and polymerisation of polymers and monomers respectively. While it focuses on the perspective of condensed matter physics, polymer physics is originally a branch of statistical physics. Polymer physics and polymer chemistry are also related with the field of polymer science, where this is considered the applicative part of polymers.

Polymer Physics I - Alexandar Grosberg & Michael Rubinstein

Article citations. More>> M. Rubinstein and R. H. Colby, " Polymer Physics, " Oxford University Press, New York, 2003. has been cited by the following article:

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Alexandar Grosberg and Michael Rubinstein give a series of lectures at the Boulder Condensed Matter Physics summer school 2012 about polymer physics. Hits on scivee.tv prior to youtube upload: 1528.

Polymer physics - Wikipedia

Polymer physics deals with the physical structure and the properties of polymers, as well as the reaction kinetics of polymerization of monomers and degradation of polymers. A number of excellent text books on these topics have been published over the years.

Polymer Physics - Michael Rubinstein; Ralph H. Colby ...

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M. Rubinstein and R. H. Colby, " Polymer Physics, " Oxford ...

Michael Rubinstein. Professor of Mechanical Engineering and Materials Science, and Professor of Biomedical Engineering. 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.

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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. The book is a self-contained treatise that could also serve as a useful ...

(PDF) Book Review: Polymer Physics. M. Rubinshtein and R ...

Michael Rubinstein. Department of Chemistry, University of North Carolina, Chapel Hill, North Carolina 27599 3290. Search for more papers by this author. ... Bridging Polymer Physics and Biology, Current Opinion in Colloid & Interface Science, 10.1016/j.cocis.2019.01.007, (2019).

Polymer Physics (Chemistry): M. Rubinstein, Ralph H. Colby ...

Life of a Polymer is a Balance of entropic and energetic parts of free energy F_{ent} F_{eng} Entropic part "wants" chains to have ideal-like conformations Energetic part typically "wants" something else (e.g. fewer monomer- monomer contacts in a good solvent). Chain has to find a compromise between these two desires

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Polymers Physics - Yale University

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.

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