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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 (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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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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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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