

# **Phase Transitions In Polymers: The Role Of Metastable States By Stephen Z.D. Cheng**

**By Stephen Z.D. Cheng**

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S.Z.D. Cheng, Phase Transition in Polymers: The role of Metastable States (Elsevier, 2008)

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Abstract. The review summarises and analyses recent results of studies into phase transitions in polymer solutions induced by mechanical fields.

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Phase transitions in polymer brushes. Tatiana M. Birshtein, Victor M. Amoskov, Theoretical phase diagrams, Polymer Science Series C, 2010, 52, 1, 44. CrossRef. 2.

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Title: THE ROLE OF METASTABLE STATES IN POLYMER PHASE TRANSITIONS: Concepts, Principles, and Experimental Observations: Authors: Cheng, Stephen Z. D.; Keller, Andrew

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A lattice model is proposed to describe the swelling behavior of polymer gels in solution. The model is applied to polymer swelling in a binary solvent mixture

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that can at least predict the general behavior of the phase transitions in liquid crystal phase transition in liquid crystal states polymer; Liquid

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