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there are several still open and often controversially
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fundamental features that are essential to the study of polymer crystallization the topic itself is central to the
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'theory of crystallization under equilibrium polymerization
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polymer crystallization building from the equilibrium concepts
presented in volume 1 as crystalline polymers rarely if ever
achieve their equilibrium state this books serves as a bridge
between equilibrium concepts and the state that is finally'*

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associated with partial alignment of their molecular chains these chains fold together and form ordered regions called lamellae which pose larger spheroidal structures named spherulites polymers can crystallize upon cooling from melting mechanical stretching or solvent evaporation crystallization affects optical mechanical thermal and chemical'

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of this important segment of material science focusing on concepts above experimental techniques and theoretical methods written for graduate students of physics material science and chemical engineering and for researchers working with polymers in academia and industry the book introduces and discusses the basic phenomena which lead to the
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exclusion model left and inclusion model right real copolymer
crystals may exhibit a morphology intermediate to the two
extremes in figure 1 in the present paper a simple theory for
random copolymer 353'

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cool quickly cool slowly tg non crystallizable polymer at high
undercoolings and results in the formation of chain folded

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m specific volume temp cool heat polymers t c t m specific
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mechanism of pa1012 mb ptmo copolymers in their work
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discussed the crystallization morphology and
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pa1012 mb ptmo copolymers within thin ultrathin films the
researchers found that the ptmo segments and the film
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