



Structure of the Polymer Amorphous State (Hardback)

By G. V. Kozlov, Gennady Zaikov

Taylor Francis Ltd, Netherlands, 2004. Hardback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. The basic problem of polymer physics is obtaining a structure-properties (TM) correlations for their future application for practical purposes. However, these cannot be obtained without the development of a quantitative model of the polymer structure. This problem has been actively investigated during the last 45 years, which resulted in obtaining a great amount of experimental (mostly indirect) proofs of existence of the local order in the polymer amorphous state. Now, the time has come for creating a structural model of polymer basing based on the local order ideas. The cluster model, as presented in this monograph, of the polymer amorphous state structure represents the realization of such attempts. The development of this cluster model is based on well-known experimental observation: the behavior of glassy polymers in the area of stimulated high-elasticity plateau is described in the framework of rubber elasticity concepts. This gives an opportunity to present the local order (cluster) zone as a multifunctional entanglement of the physical network consisting of several collinear closely packed...



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