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Disordered Solids

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We discuss a phase of matter which is characterized by random localization of the atoms or molecules and a finite restoring force for static shear deformations. The following questions will be addressed: What is an appropriate order parameter for the amorphous solid state? How can we characterize its random structure? How do long range elastic correlations develop at the glass transition? These questions will be discussed by means of a statistical mechanical theory of disordered system as well as generalised hydrodynamics.

Category

Other

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