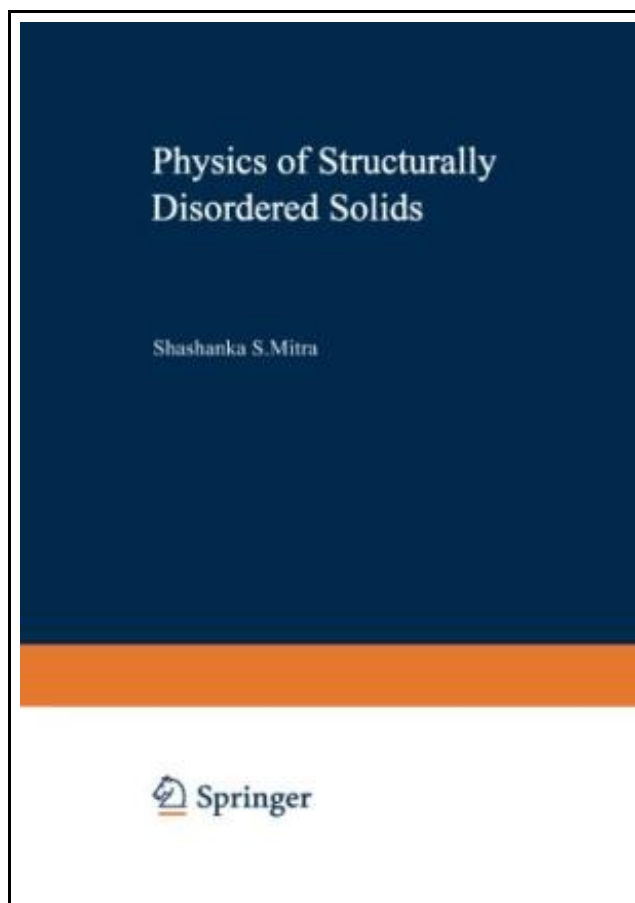


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Reviews

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(Prof. Maya Hand)

PHYSICS OF STRUCTURALLY DISORDERED SOLIDS



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Springer-Verlag New York Inc., United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.Structurally disordered solids are characterized by their lack of spatial order that is evidenced by the great variety of ordered solids. The former class of materials is commonly termed amorphous or glassy, the latter crystalline. However, both classes share, many of the other physical properties of solids, e. g. , mechanical stability, resistance to shear stress, etc. The traditional macroscopic distinction between the crystalline and the glassy states is that while the former has a fixed melting point, the latter does not. However, with the availability and production of a large number of materials in both crystalline and amorphous states, and their easy inter-convertability, simple definitions are not possible or at best imprecise. For the present purpose, it is sufficient to say that in contrast to the crystalline state, in which the positions of atoms are fixed into a definite structure, except for small thermal vibrations, the amorphous state of the same material displays varying degrees of departure from this fixed structure. The amorphous state almost always shows no long range order. Short range order, up to several neighbors, may often be retained, although averaged considerably around their crystalline values. It is generally believed that the amorphous state is a metastable one with respect to the crystalline ordered state, and the conversion to the crystalline state may or may not be easy depending on the nature of the material, e. g. Softcover reprint of the original 1st ed. 1976.



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