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Amorphous Materials: Research, Technology and Applications

By Jason R. Telle, Norman A. Pearlstine

Nova Science Publishers Inc. Hardback. Book Condition: new. BRAND NEW, Amorphous Materials: Research, Technology and Applications, Jason R. Telle, Norman A. Pearlstine, Amorphous materials, also known as soft glass, lack a definite form. Computer modeling of liquid and amorphous metals has a rather long history. Due to computer facilities progress, possibilities of construction of adequate model of liquid or amorphous metal have considerably increased. New results and also some problems that have arisen in the literature are discussed in this book. In particular, problems of ambiguity of correlation structure- interaction potential, topological aspects of structural characteristics of non-crystalline system and feature of diffusion in amorphous systems are discussed. Bulk metallic glasses (BMGs) have enabled the measurements of various physical as well as mechanical properties that were often impossible. Thermal expansion is one of the most important thermodynamic characteristics and is strongly correlated to the amorphous structures of metallic glasses. Thus, the relationship of fragility and dilatation with glass-forming ability of Pr-based bulk metallic glasses are explored. Phase-change memory technology is based on the high speed reversible amorphous-to-crystalline transformation of a thin film material and utilizes the difference in the optical or electrical properties between both states. In this book, stoichiometric...



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