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BOOK REVIEW

SOME THERMODYNAMIC, STRUCTURAL AND BEHAVIORAL ASPECTS OF MATERIALS ACCENTUATING NON-CRYSTALLINE STATES

Jaroslav SESTAK, Miroslav HOLECEK and Jiri MALEK (Editors)

Three Czech enthusiasts scientists, well known to the international scientific community, edited a book dedicated to the physical-chemistry and behavioral aspects of materials mainly in non-crystalline states. They managed to associate most famous scientists in solid-state chemistry of materials mainly in metastable states characteristic of glassy, amorphous and otherwise disordered materials. The 28 chapters of the book are grouped as follows: theory and thermodynamics, macromolecules and polymers, vitreous states, crystallization kinetics, structural and transport properties, diffusion and low dimensional systems and technological applications. Among them one has to mention as examples: INTRODUCING NON-CRYSTALLINE, DISORDERED, AMORPHOUS, VITREOUS AND GLASSY CONCEPTS, SOME IMPORTANT FEATURES OF GLASSINESS AND THE NATURE OF AMORPHOUS SOLIDS, APPLICATION OF THE ISOCONVERSIONAL METHODS FOR THE PROCESSES OCCURING IN GLASSY AND AMORPHOUS MATERIALS.

The 50 authors of the book chapters are well known scientists mainly from Czech Republic and Slovakia. One has to notice the important contributions of the high level scientists from Portugal, USA, Japan, Australia, Russia, Brazil, Bulgaria and France.

The presentation of the various problems is quasiexhaustive, characteristics which makes the book a comprehensive guide in appropriation, teaching and research connected with non-crystalline states of matter. These are the reasons for the book should not be missing from the working desk of professors, research workers and students interested in metastable states of matter.

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