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Migration Studies with X-Ray Photon Correlation Spectroscopy; Impurity
Diffusion in Highly-Ordered Intermetallic Compounds Studied by
Nuclear Quadrupole Interactions; Anomalous Kinetics and Regimes of
Growth of Intermetallic Phases during Solid State Reactions in
Nanosystems
Influence of Limited Efficiency and Competition of Vacancy
Sinks/Sources on the Diffusion-Controlled Intermediate Phase
Growth
Theoretical Study of the Heat of Transport in a Liquid Ni₅₀Al₅₀
Alloy: Green-Kubo Approach; "Order-Order" Kinetics in Triple-Defect
B2-Ordered Binary Intermetallics: Kinetic Monte Carlo Simulation;
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Sommario/riassunto

The fascinating development of materials science which nowadays definitely involves the previously side-lined basic research within physics and chemistry has led to a number of innovative technologies of new materials. Despite many hopes and even successes in replacing traditional metallic materials by, for example, polymers or composites, the former materials are not only still widely used but are also making a 'come back'. As an example, intermetallic phases are enjoying an ever increasing interest as either functional or high-temperature structural materials and are prominent in this develo
