Radiation Processes in Crystal Solid Solutions

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About the ebook

This is a monograph explaining processes occurring in two classes of crystal solids (metal alloys and doped alkali halide) under irradiation by various types of radiation (alpha, beta, gamma, X-radiations, ions). This e-book is a useful reference for advanced readers interested in the physics of radiation and solid state physics.

Contents

- Kinds and Properties of Radiation: Lattice Defects in Metals and Alkali Halides
- Intrinsic Radiation Defects and Their Production Mechanisms
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- Diffusion Under Irradiation
- Decomposition of the Solid Solutions Under Irradiation
- Theoretical Estimates and Models of the Radiation Stability of Crystal Solid Solutions
- Radiation-Stimulated Segregation

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