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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
- ▶ Impurity Radiation Defects
- ▶ Effect of Impurities on the Radiation Defect Formation
- ▶ 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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