



Physics of Radiation Effects in Crystals (Modern Problems in Condensed Matter Sciences)

R. A. Johnson

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"Physics of Radiation Effects in Crystals" is presented in two parts. The first part covers the general background and theory of radiation effects in crystals, including the theory describing the generation of crystal lattice defects by radiation, the kinetic approach to the study of the disposition of these defects and the effects of the diffusion of these defects on alloy compositions and phases. Specific problems of current interest are treated in the second part and include anisotropic dimensional changes in α -uranium, zirconium and graphite, acceleration of thermal creep in reactor materials, and radiation damage of semiconductors and superconductors.

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