



Microstructure of Metals and Alloys: An Atlas of Transmission Electron Microscopy Images

By Ganka Zlateva, Zlatanka Martinova

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A teaching tool intended to complement existing books on the theory of materials science, metallurgy, and electron microscopy, this text focuses on metals and alloys. It visualizes key structural elements common to crystalline materials, including crystal lattice imperfections, along with the principles and steps involved in the microstructure development in metallic materials under external influences.

Designed as an atlas, **Microstructure of Metals and Alloys** contains a collection of carefully selected original transmission electron microscope (TEM) micrographs taken by the authors. These images demonstrate typical crystal lattice defects, elements of the microstructure of metals and alloys, and the basic processes occurring to the crystal structure during plastic deformation, polyгонization, recrystallization, and rapid solidification.

The book is organized into six chapters. Each deals with a particular problem in the field of physical metallurgy, and begins with a description of the basic concept and terms. These descriptions enable readers to achieve a better understanding of the essential issues relevant to specific challenges. Providing comprehensive, illustrative coverage of the basic topics in materials science, this important work emphasizes fundamental principles over specific materials, in a manner that is fully consistent with the contemporary tendency in materials science teaching.

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