



Physical Metallurgy

By Peter Haasen, B. L. Mordike

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Physical Metallurgy describes the microstructure, transformation and properties of metallic materials using solid state physics and chemical thermodynamics. The author also treats experimental methods of physical metallurgy. The third edition includes new sections on the permeation of hydrogen in metals, the Landau theory of martensitic transformation, and order hardening and plasticity of intermetallics. The author has brought numerous other sections up to date in the light of new developments such as scanning tunneling microscopy, CALPHAD-method, diffusion in glasses, DIGM, and recrystallization. His clear and concise coverage of a remarkably wide range of topics will appeal both to physics students at the threshold of their metallurgical careers and to metallurgists who are interested in the physical foundation of their field.

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Editorial Review

Language Notes

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Original Language: German

From the Back Cover

This book elucidates the microstructure, transformation and properties of metallic materials by means of solid state physics and chemical thermodynamics. Experimental methods of physical metallurgy are also treated.

Users Review

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