

Physical Metallurgy (Materials Engineering)

William F. Hosford

For students ready to advance in their study of metals, **Physical Metallurgy** combines theoretical concepts, real alloy systems, processing procedures, and examples of real-world applications. The author uses his experience in teaching physical metallurgy at the University of Michigan to convey this topic with greater depth and detail than most introductory materials courses offer.

The book follows its introduction of metals with topics that are common to all metals, including solidification, diffusion, surfaces, solid solutions, intermediate phases, dislocations, annealing, and phase transformations. Other chapters focus on specific nonferrous alloy systems and their significant metallurgical properties and applications, the treatment of steels includes separate chapters on iron-carbon alloys, hardening, tempering and surface treatment, special steels and low carbon sheet steel, followed by a separate chapter on cast irons. Concluding chapters treat powder metallurgy, corrosion, welding and magnetic alloys. There are appendices on microstructural analysis, stereographic projection, and the Miller-Bravais system for hexagonal crystals. These chapters cover ternary phase diagrams, diffusion in multiphase systems, the thermodynamic basis for phase diagrams, stacking faults and hydrogen embrittlement.

Physical Metallurgy uses engaging historical and contemporary examples that relate to the applications of concepts in each chapter. With ample references and sample problems throughout, this text is a superb tool for any advanced materials science course.

- [Iron and Steel](#)
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