

Fundamentals Of Physical Metallurgy

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Part 1: FUNDAMENTALS OF PHYSICAL METALLURGY. 1. Introduction. 2. The Crystalline Structure of Metals. 3. Crystal Imperfections and Deformation. 4. Diffusion and Its Applications. Part 2: MICROSTRUCTURAL DEVELOPMENT. 5. Microstructural and Material Characterization. 6. Phase Diagrams. 7. Phase Transformations and Kinetics. Part 3: ENGINEERING METALLURGY AND DESIGN.

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The author does not claim to have made a complete exposition of all the aspects of physical metallurgy. His intention was merely to set forth the fundamentals of physical metallurgy and heat treatment of steel, cast iron, and nonferrous metals in a consecutive and easily understandable manner.

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Additional Physical Format: Online version: Hultgren, Ralph Raymond, 1905-Fundamentals of physical metallurgy. New York, Prentice-Hall [©1952] (OCOLC)576053371

Designed for students who have already taken an introductory course in metallurgy or materials science, this advanced text describes how structures control the mechanical properties of metals.

Physical metallurgy is one of the main fields of metallurgical science dealing with the development of the microstructure of metals in order to achieve desirable properties required in technological applications. Physical Metallurgy: Principles and Design focuses on the processing–structure–properties triangle as it applies to metals and alloys. It introduces the fundamental principles of physical metallurgy and the design methodologies for alloys and processing. The first part of the book discusses the structure and change of structure through phase transformations. The latter part of the books deals with plastic deformation,

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strengthening mechanisms, and mechanical properties as they relate to structure. The book also includes a chapter on physical metallurgy of steels and concludes by discussing the computational tools, involving computational thermodynamics and kinetics, to perform alloy and process design.

An introduction to steel products for industry professionals

This fifth edition of the highly regarded family of titles that first published in 1965 is now a three-volume set and over 3,000 pages. All chapters have been revised and expanded, either by the fourth edition authors alone or jointly with new co-authors. Chapters have been added on the physical metallurgy of light alloys, the physical metallurgy of titanium alloys, atom probe field ion microscopy, computational metallurgy, and orientational imaging microscopy. The books incorporate the latest experimental research results and theoretical insights. Several thousand citations to the research and review literature are included. Exhaustively synthesizes the pertinent, contemporary developments within physical metallurgy so scientists have authoritative information at their fingertips. Replaces existing articles and monographs with a single, complete solution. Enables metallurgists to predict changes and create novel alloys and processes.

As product specifications become more demanding, manufacturers require steel with ever more specific functional properties. As a result, there has been a wealth of research on how those properties emerge during steelmaking. Fundamentals of metallurgy summarises this research and its implications for manufacturers. The first part of the book reviews the effects of processing on the properties of metals with a range of chapters on such phenomena as phase transformations, types of kinetic reaction, transport and

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interfacial phenomena. Authors discuss how these processes and the resulting properties of metals can be modelled and predicted. Part two discusses the implications of this research for improving steelmaking and steel properties. With its distinguished editor and international team of contributors, Fundamentals of metallurgy is an invaluable reference for steelmakers and manufacturers requiring high-performance steels in such areas as automotive and aerospace engineering. It will also be useful for those dealing with non-ferrous metals and alloys, material designers for functional materials, environmentalists and above all, high technology industries designing processes towards materials with tailored properties. Summarises key research and its implications for manufacturers Essential reading for steelmakers and manufacturers Written by leading experts from both industry and academia

Magnesium and magnesium alloys offer a wealth of valuable properties, making them of great interest for use across a wide range of fields. This has led to extensive research focused on understanding the properties of magnesium and how these can be controlled during processing. Fundamentals of magnesium alloy metallurgy presents an authoritative overview of all aspects of magnesium alloy metallurgy, including physical metallurgy, deformation, corrosion and applications. Beginning with an introduction to the primary production of magnesium, the book goes on to discuss physical metallurgy of magnesium and thermodynamic properties of magnesium alloys. Further chapters focus on understanding precipitation processes of magnesium alloys, alloying behaviour of magnesium, and alloy design. The formation, corrosion and surface finishing of magnesium and its alloys are reviewed, before Fundamentals of magnesium alloy metallurgy concludes by exploring applications across a range of fields. Aerospace, automotive and other structural applications of magnesium are considered, followed by magnesium-based metal matrix composites and the use of magnesium in medical

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applications. With its distinguished editors and international team of expert contributors, Fundamentals of magnesium alloy metallurgy is a comprehensive tool for all those involved in the production and application of magnesium and its alloys, including manufacturers, welders, heat-treatment and coating companies, engineers, metallurgists, researchers, designers and scientists working with these important materials. Overviews all aspects of magnesium alloy metallurgy Discusses physical metallurgy of magnesium and thermodynamic properties of magnesium alloys Reviews the formation, corrosion and surface finishing of magnesium and its alloys

* Covers all aspects of physical metallurgy and behavior of metals and alloys. * Presents the principles on which metallurgy is based. * Concepts such as heat affected zone and structure-property relationships are covered. * Principles of casting are clearly outlined in the chapter on solidification. * Advanced treatment on physical metallurgy provides specialized information on metals.

Physical Metallurgy and Advanced Materials is the latest edition of the classic book previously published as Modern Physical Metallurgy and Materials Engineering. Fully revised and expanded, this new edition is developed from its predecessor by including detailed coverage of the latest topics in metallurgy and material science. It emphasizes the science, production and applications of engineering materials and is suitable for all post-introductory materials science courses. This book provides coverage of new materials characterization techniques, including scanning tunneling microscopy (STM), atomic force microscopy (AFM), and nanoindentation. It also boasts an updated coverage of sports materials, biomaterials and nanomaterials. Other topics range from atoms and atomic arrangements to phase equilibria and structure; crystal defects; characterization and analysis of materials; and physical and mechanical properties of materials. The chapters also

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examine the properties of materials such as advanced alloys, ceramics, glass, polymers, plastics, and composites. The text is easy to navigate with contents split into logical groupings: fundamentals, metals and alloys, nonmetals, processing and applications. It includes detailed worked examples with real-world applications, along with a rich pedagogy comprised of extensive homework exercises, lecture slides and full online solutions manual (coming). Each chapter ends with a set of questions to enable readers to apply the scientific concepts presented, as well as to emphasize important material properties. Physical Metallurgy and Advanced Materials is intended for senior undergraduates and graduate students taking courses in metallurgy, materials science, physical metallurgy, mechanical engineering, biomedical engineering, physics, manufacturing engineering and related courses. Renowned coverage of metals and alloys, plus other materials classes including ceramics and polymers. Updated coverage of sports materials, biomaterials and nanomaterials. Covers new materials characterization techniques, including scanning tunneling microscopy (STM), atomic force microscopy (AFM), and nanoindentation. Easy to navigate with contents split into logical groupings: fundamentals, metals and alloys, nonmetals, processing and applications. Detailed worked examples with real-world applications. Rich pedagogy includes extensive homework exercises.

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