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Metallurgy - Wikipedia

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This comprehensive, student friendly text is intended for use in an introductory course in physical metallurgy and is designed for all engineering students at the junior or senior level. The approach is largely theoretical but all aspects of physical metallurgy and behavior of metals and alloys are covered. The treatment used in this textbook is in harmony with a more fundamental approach to engineering education. An extensive revision has been done to insure that the content remains the standard for metallurgy engineering courses worldwide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

For students ready to advance in their study of metals, Physical Metallurgy, Second Edition uses engaging historical and contemporary examples that relate to the applications of concepts in each chapter. This book combines theoretical concepts, real alloy systems, processing procedures, and examples of real-world applications. The author uses his ex

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, 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.

\* 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.

Modern Physical Metallurgy, Third Edition discusses the fundamental principles of physical metallurgy and demonstrates how the application of the principles leads to a clearer understanding of many technologically important metallurgical phenomena. This book covers the substantial developments in the microstructural examination of metals using X-ray microanalysis, strengthening of metals, and surface and interface behavior. Numerical problems on crystallography, constitution and microstructure, diffraction, diffusion, defect theory, and thermodynamics are also provided in this publication. This edition is useful for all undergraduate degree courses in metallurgy and materials in both universities and polytechnics. The large range of topics included, from superconductivity to superplasticity and from macroscopic plasticity to fracture toughness, gives students sufficient background to the fundamental principles and practical details for examination requirements.

This well-established book, now in its Second Edition, presents the principles and applications of engineering metals and alloys in a highly readable form. This new edition retains all the basic topics such as phase diagrams, phase transformations, heat treatment of steels and nonferrous alloys, solidification, fatigue, fracture and corrosion covered in the First Edition. The text has been updated and rewritten for greater clarity. Also, more diagrams have been added to illustrate the concepts discussed. This Edition gives New Sections on : • Thermoelastic martensite • Shape memory alloys • Rapid solidification processing • Quaternary phase diagrams Intended as a text for undergraduate courses in Metallurgy/Metallurgical and Materials Engineering, this book is also suitable for students preparing for associate membership examination of Indian Institute of Metals (AMIIM), as well as other professional examinations like AMIE.

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