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\* 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.

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.

Modern Physical Metallurgy, Fourth Edition discusses the fundamentals and applications of physical metallurgy. The book is comprised of 15 chapters that cover the experimental background of a metallurgical phenomenon. The text first talks about the structure of atoms and crystals, and then proceeds to dealing with the physical examination of metals and alloys. The third chapter tackles the phase diagrams and solidifications, while the fourth chapter covers the thermodynamics of crystals. Next, the book discusses the structure of alloys. The next four chapters deal with the deformations and defects of crystals, metals, and alloys. Chapter 10 discusses work hardening and annealing, while Chapters 11 and 12 cover phase transformations. The succeeding two chapters talk about creep, fatigue, and fracture, while the last chapter covers oxidation and corrosion. The text will be of great use to undergraduate students of materials engineering and other degrees that deal with metallurgical properties.

This is the fourth edition of a work which first appeared in 1965. The first edition had approximately one thousand pages in a single volume. This latest volume has almost three thousand pages in 3 volumes which is a fair measure of the pace at which the discipline of physical metallurgy has grown in the intervening 30 years. Almost all the topics previously treated are still in evidence in this version which is approximately 50% bigger than the previous edition. All the chapters have been either totally rewritten by new authors or thoroughly revised and expanded, either by the third-edition authors alone or jointly with new co-authors. Three chapters on new topics have been added, dealing with dry corrosion, oxidation and protection

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of metal surfaces; the dislocation theory of the mechanical behavior of intermetallic compounds; and (most novel) a chapter on polymer science for metallurgists, which analyses the conceptual mismatch between metallurgists' and polymer scientists' way of looking at materials. Special care has been taken throughout all chapters to incorporate the latest experimental research results and theoretical insights. Several thousand citations to the research and review literature are included in this edition. There is a very detailed subject index, as well as a comprehensive author index. The original version of this book has long been regarded as the standard text in physical metallurgy and this thoroughly rewritten and updated version will retain this status.

Physical Metallurgy 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. This 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. Numerous other sections have been brought up to date in the light of new developments (e.g. scanning tunnelling microscopy, CALPHAD-method, diffusion in glasses, DIGM, recrystallisation). New artwork and references have also been added. Professor Haasen's 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.

This well-established book, now in its Third Edition, presents the principles and applications of engineering metals and alloys in a highly readable form. This new edition retains all the basic topics covered in earlier editions such as phase diagrams, phase transformations, heat treatment of steels and nonferrous alloys, shape memory alloys, solidification, fatigue, fracture and corrosion, as well as applications of engineering alloys. A new chapter on 'Nanomaterials' has been added (Chapter 8). The field of nano-materials is interdisciplinary in nature, covering many disciplines including physical metallurgy. Intended as a text for undergraduate courses in Metallurgical and Materials Engineering, the book is also suitable for students preparing for associate membership examination of the Indian Institute of Metals (AMIIM) and other professional examinations like AMIE.

Expanded and revised to include changes and additions to metal cutting theory. Covers developments in tool materials and industrial practice over the last seven years. Describes the stresses and temperatures acting on cutting tools and explains their influence on performance. Discusses tool wear which determines cutting efficiency. Details machinability and control of tool material structure and composition.

Modern Blast Furnace Ironmaking – An Introduction (Fourth Edition, 2020) describes the principles of the blast furnace process. As a starting point, the blast furnace is seen as a simple iron ore melter, while gradually the physical, chemical and metallurgical background of the blast furnace process is clarified. The book focuses on the control of the process with respect to thermal control, gas flow control and casthouse operation. In this book, all essential process details are described and a special focus is on cost optimization by low coke rates and on

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management of the process in case of disturbances and upsets. The optimization of the blast furnace is not only based on "best practice transfer", but also requires conceptual understanding why a measure works in some cases and not in other cases. In other words, operational improvement is not only based on know-how, but as well on know-why. This publication can be used as an introductory text for students of metallurgy as well as for blast furnace operators and management.

This text comprises a collection of papers from the Merton C. Flemings Symposium held on the MIT campus in June, 2000. The papers cover such topics as dendritic solidification dynamics, control of casting quality, interdendritic fluid flow, semi-solid processing, and engineering education.

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