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Physical Metallurgy Principles. 4th ed. Stamford, CT: Cengage Learning, 2008. ISBN: 9780495082545. Cullity, B. D., and S. R. Stock. Elements of X-Ray Diffraction. Upper Saddle River, NJ: Prentice Hall, 2001. ISBN: 9780201610918. Courtney, Thomas H. Mechanical Behavior of Materials. Long Grove, IL: Waveland Press, 2005.

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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.

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 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.

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.

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 second edition provides a comprehensive discussion of contemporary materials used in biomedical research and development. The pedagogical writing style and structure provides students with an understanding of the fundamental concepts necessary to pursue research and industrial work in this growing area of biomedical science, including characteristics of biomaterials, biological processes, biocompatibility, and applications of materials in implants and medical instruments. Written by leading researchers in the field, this volume highlights important topics associated with biomedical engineering, medicine and surgery. The revised text contains updates that reflect recent technological advances in biomedical materials. It contains information on new characterization methods and applications for biomedical materials and incorporates suggestions that were offered by readers and educators using the first edition over the years. This textbook takes the reader to the forefront of biomedical materials development, providing graduate students with a taste of how the field is changing, while also serving as a useful reference to physicians and engineers.

"This book entitled "Engineering Steels and High Entropy-Alloys" presents an overview of various types of advanced steels and high entropy alloys. It also discusses the current research trends, problems, and applications of engineering steels and high entropy materials. The book also gives a brief overview of advances in surface protection strategies of steels and laser processing of materials (additive manufacturing). The various key features of this book include: 1. A comprehensive overview of various types of engineering steels, phase transformation, and applications in engineering. 2. A complete detailed understanding and mechanism of high entropy materials, including high entropy alloys and ceramics. 3. Descriptions of structure-property relationships in high entropy materials and their application in various fields such as biomedical implants. 4. A brief review of various laser processing (additive manufacturing) and surface protection of advanced materials."

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.

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.

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.

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