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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.

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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

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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.

"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."

This second edition provides a comprehensive discussion of contemporary



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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.

Comprehensive Materials Processing provides students and professionals with a one-stop resource consolidating and enhancing the literature of the materials processing and manufacturing universe. It provides authoritative analysis of all processes, technologies, and techniques for converting industrial materials from a raw state into finished parts or products. Assisting scientists and engineers in the selection, design, and use of materials, whether in the lab or in industry, it matches the adaptive complexity of emergent materials and processing technologies.

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Extensive traditional article-level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features. Coverage encompasses the general categories of solidification, powder, deposition, and deformation processing, and includes discussion on plant and tool design, analysis and characterization of processing techniques, high-temperatures studies, and the influence of process scale on component characteristics and behavior. Authored and reviewed by world-class academic and industrial specialists in each subject field Practical tools such as integrated case studies, user-defined process schemata, and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources

Rather than simply describing the processes and reactions involved in metal extraction, this book concentrates on fundamental principles to give readers an understanding of the possibilities for future developments in this field. It includes a review of the basics of thermodynamics, kinetics and engineering principles that have special importance for extractive metallurgy, to ensure that readers have the background necessary for maximum achievement. The various metallurgical unit processes (such as roasting, reduction, smelting and electrolysis) are illustrated by existing techniques for the extraction of the most common metals. Each chapter includes a bibliography of recommended reading, to aid in further study. The appendices include tables and graphs of thermodynamic qualities for most

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substances of metallurgical importance; these are ideal for calculating heat (enthalpy) balances and chemical equilibrium constants. SI Units are used consistently throughout the text.

Processes and Design for Manufacturing, Third Edition, examines manufacturing processes from the viewpoint of the product designer, investigating the selection of manufacturing methods in the early phases of design and how this affects the constructional features of a product. The stages from design process to product development are examined, integrating an evaluation of cost factors. The text emphasizes both a general design orientation and a systems approach and covers topics such as additive manufacturing, concurrent engineering, polymeric and composite materials, cost estimation, design for assembly, and environmental factors. Appendices with materials engineering data are also included.

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