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Physical metallurgy is one of the main fields of metallurgical science dealing with the

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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.

Metals and Materials: Science, Processes, Applications aims to present the science of materials in a readable and concise form that leads naturally to an explanation of the ways



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in which materials are processed and applied. The science of metals, or physical metallurgy, has developed naturally into the wider and more diverse discipline of materials science. The study of metals and alloys still forms a large and important part of this relatively new discipline, but it's common to find that fundamental principles and concepts of physical metallurgy can be adapted to explain the behavior of a variety of non-metallic materials. As an aid to fully study this discipline, each chapter has been supplemented with a list of specialized references. These references include images

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and diagrams that illustrate the subtleties of materials, such as micrographs of grain structures and fine-scale defects, phase diagrams for metals and ceramics, electron diffraction patterns revealing atomic arrangements, specific property diagrams correlating the behavior of different materials, and slip vector diagrams for deforming crystals. Throughout this book, sufficient background and theory is provided to assist students in answering questions about a large part of a typical degree course in materials science and engineering. Some sections provide a background or point of

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entry for postgraduate studies and courses.

The Special Issue 'Physical Metallurgy of High Manganese Steels' addresses the highly fascinating class of manganese-alloyed steels with manganese contents well above 3 mass%. The book gathers manuscripts from internationally recognized researchers with stimulating new ideas and original results. It consists of fifteen original research papers. Seven contributions focus on steels with manganese contents above 12 mass%. These contributions cover fundamental aspects of process-microstructure-properties

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relationships with processes ranging from cold and warm rolling over deep rolling to heat treatment. Novel findings regarding the fatigue and fracture behavior, deformation mechanisms, and computer-aided design are presented. Additionally, the Special Issue also reflects the current trend of reduced Mn content (3-12 mass%) in advanced high strength steels (AHSS). Eight contributions were dedicated to these alloys, which are often referred to as 3rd generation AHSS, medium manganese steels or quenching and partitioning (Q&P/Q+P) steels. The interplay between advanced processing, mainly novel

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annealing variants, and microstructure evolution has been addressed using computational and experimental approaches. A deeper understanding of strain-rate sensitivity, hydrogen embrittlement, phase transformations, and the consequences for the materials' properties has been developed. Hence, the topics included are manifold, fundamental-science oriented and, at the same time, relevant to industrial application.

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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,

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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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