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

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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

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Physical Metallurgy and Advanced Materials is the latest edition of the classic book previously published as Modern Physical Metallurgy and Materials Engineering. Fully revised and expanded, this new edition is developed from its predecessor by including detailed coverage of the latest topics in metallurgy and material science. It emphasizes the science, production and applications of engineering materials and is suitable for all post-introductory materials science courses. This book provides coverage of new materials characterization techniques, including scanning tunneling microscopy (STM), atomic force microscopy (AFM), and nanoindentation. It also boasts an updated coverage of sports materials,

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Physical Metallurgy and Advanced Materials is intended for senior undergraduates and graduate students taking courses in metallurgy, materials science, physical metallurgy, mechanical engineering, biomedical engineering, physics, manufacturing engineering and related courses. Renowned coverage of metals and alloys, plus other materials classes including ceramics and polymers. Updated coverage of sports materials, biomaterials and nanomaterials. Covers new materials characterization techniques, including scanning tunneling microscopy (STM), atomic force microscopy (AFM), and nanoindentation. Easy to navigate with contents split into logical groupings: fundamentals, metals and alloys, nonmetals, processing and applications. Detailed worked examples with real-world applications. Rich pedagogy includes extensive homework exercises.

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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 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

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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 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

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supplemented with a list of specialized references. These references include images 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 entry for postgraduate studies and courses.

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