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This classic textbook is the definitive introduction to the thermodynamic behavior of materials systems. Written as a basic text for advanced undergraduates and first year graduate students in metallurgy, metallurgical engineering, ceramics, or materials science, it presents the underlying thermodynamic principles of materials and their plethora of applications. The book is also of proven interest to working professionals in need of a reference or refresher course.

This book is based on a set of notes developed over many years for an introductory course taught to seniors and entering graduate students in materials science. An Introduction to Aspects of Thermodynamics and Kinetics Relevant to Materials Science is about the application of thermodynamics and kinetics to solve problems within Materials Science. Emphasis is to provide a physical understanding of the phenomenon under discussion, with the mathematics presented as a guide. The problems are used to provide practice in quantitative

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application of principles, and also to give examples of applications of the general subject matter to problems having current interest and to emphasize the important physical concepts. End of chapter problems are included, as are references, and bibliography to reinforce the text. This book provides students with the theory and mathematics to understand the important physical understanding of phenomena. Based on a set of notes developed over many years for an introductory course taught to seniors and entering graduate students in materials science Provides students with the theory and mathematics to understand the important physical understanding of phenomena Includes end of chapter problems, references, and bibliography to reinforce the text

A comprehensive introduction, examining both macroscopic and microscopic aspects of the subject, the book applies the theory of thermodynamics to a broad range of materials; from metals, ceramics and other inorganic materials to geological materials. Focusing on materials rather than the underlying mathematical concepts of the subject, this book will be ideal for the non-specialist requiring an introduction to the energetics and stability of materials. Macroscopic thermodynamic properties are linked to the underlying microscopic nature of the materials and trends in important properties are discussed. A unique approach covering both macroscopic and microscopic aspects of the subject Authors have worldwide reputations in this area Fills a gap in the market by featuring a wide range of real up-to-date examples and covering a large amount of materials

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