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Based on a university course, this book provides an exposition of a large spectrum of geological, geochemical and geophysical problems that are amenable to thermodynamic analysis. It also includes selected problems in planetary sciences, relationships between thermodynamics and microscopic properties, particle size effects, methods of approximation of thermodynamic properties of minerals, and some kinetic ramifications of entropy production. The textbook will enable graduate students and researchers alike to develop an appreciation of the fundamental principles of thermodynamics, and their wide ranging applications to natural processes and systems.

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 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

Volume 7 of Reviews in Mineralogy reviews the essential aspects of pyroxene research. Recently, Deer, Howie and Zussman (DHZ) published a second edition of their volume in the Rock-Forming Minerals series, Single-Chain Silicates, Vol. 2A (John Wiley, New York, 1978). The present volume is intended to be complementary to DHZ and to provide material covered lightly or not at all in DHZ, such as electron microscopy, spectroscopy, and detailed thermodynamic treatments. However, because the range of pyroxene research has grown so much in recent years, there still are important areas not covered comprehensively in either of these volumes. Some of these areas are kinetics, diffusion, crystal defects, deformation, and nonsilicate pyroxene crystal chemistry. Because of these omissions and because this volume is intended for use with the MSA Short Course on Pyroxenes to be held at Emory University in conjunction with the November, 1980 meeting of the Society, a Symposium on Pyroxenes was organized by J. Stephen Huebner for the meeting that is designed to present the latest research results on several different topics, including those above. With DHZ, this volume, and publications from the Symposium, the student of pyroxenes should be well-equipped to advance our knowledge of pyroxenes in the decades ahead.

Thermodynamics in Materials Science, Second Edition is a clear presentation of how thermodynamic data is used to predict the behavior of a wide range of materials, a crucial component in the decision-making process for many materials science and engineering applications. This primary textbook accentuates the integration of principles, strategies, a

Thermal Analysis and Thermodynamic Properties of Solids, Second Edition covers foundational principles and recent updates in the field, presenting an authoritative overview of theoretical knowledge and practical applications across several fields. Since the first edition of this book was published, large developments have occurred in the theoretical understanding of—and subsequent ability to assess and apply—principles of thermal analysis. Drawing on the knowledge of its expert author, this second edition provides fascinating insight for both new and experienced students, researchers, and industry professionals whose work is influenced or impacted by thermo analysis principles and tools. Part 1 provides a detailed introduction and guide to theoretical aspects of thermal analysis and the related impact of thermodynamics. Key terminology and concepts, the fundamentals of thermophysical examinations, thermostatics, equilibrium background, thermotics, reaction kinetics and models, thermokinetics and the exploitation of fractals are all discussed. Part 2 then goes on to discuss practical applications of this theoretical information to topics such as crystallization kinetics and glass states, thermodynamics in superconductor models, and climate change. Includes fully updated as well as new chapters on kinetic phase diagrams, thermokinetics in DTA experiments, and crystallization kinetics Discusses the influence of key derivatives such as thermostatics, thermodynamics, thermotics, and thermokinetics Helps readers understand and describe reaction kinetics in solids, both in terms of simplified descriptions of the reaction mechanism models and averaged descriptions using fractals

An Introduction to Mineral Sciences explains the principles underlying the modern study of minerals.

Metal oxide-zirconia systems are a potential class of materials for use as structural materials at temperatures above 1900 K. These materials must have no destructive phase changes and low vapor pressures. Both alkaline earth oxide (MgO, CaO, SrO, and BaO)-zirconia and some rare earth oxide (Y2O3, Sc2O3, La2O3, CeO2, Sm2O3, Gd2O3, Yb2O3, Dy2O3, Ho2O3, and Er2O3)-zirconia system are examined. For each system, the phase diagram is discussed and the vapor pressure for each vapor specie is calculated via a free energy minimization procedure. The available thermodynamic literature on each system is also surveyed. Some of the systems look promising for high temperature structural materials.

Here is one of the first single-author treatments of organometallic vapor-phase epitaxy (OMVPE)--a leading technique for the fabrication of semiconductor materials and devices. Also included are metal-organic molecular-beam epitaxy (MOMBE) and chemical-beam epitaxy (CBE) ultra-high-vacuum deposition techniques using organometallic source molecules. Of interest to researchers, students, and people in the semiconductor industry, this book provides a basic foundation for understanding the technique and the application of OMVPE for the growth of both III-V and II-VI semiconductor materials and the special structures required for device applications. In addition, a comprehensive summary detailing the OMVPE results observed to date in a wide range of III-V and II-VI semiconductors is provided. This includes a comparison of results obtained through the use of other epitaxial techniques such as molecular beam epitaxy (MBE), liquid-phase epitaxy (LPE), and vapor phase epitaxy using halide transport.