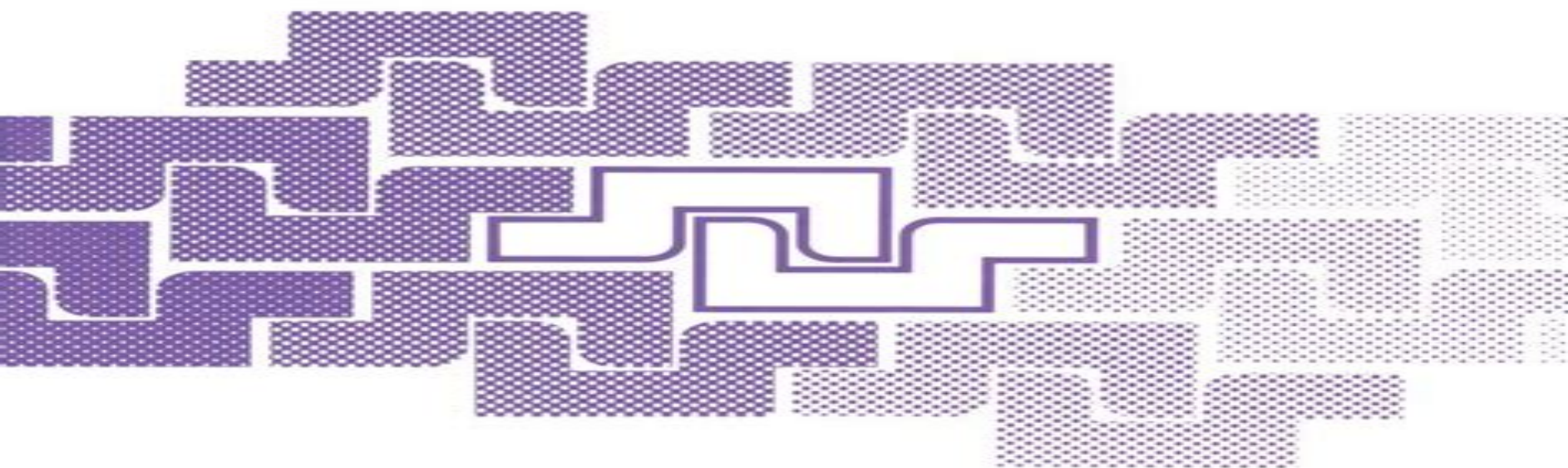




Physical Properties and Thermodynamic Behaviour of Minerals

edited by Ekhard K. H. Salje

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Physical Properties And Thermodynamic Behaviour Of Minerals

Alexandra Navrotsky



Physical Properties And Thermodynamic Behaviour Of Minerals:

Physical Properties and Thermodynamic Behaviour of Minerals Ekhard K.H. Salje, 2012-12-06 The role played by earth sciences in the scientific community has changed considerably during this century Since the revolutionary discoveries of global processes such as plate tectonics there has been an increasing awareness of just how fundamental many of the mechanisms which dominate in these processes depend on the physical properties of the materials of which the earth is made One of the prime objectives of mineral sciences is now to understand and predict these properties in a truly quantitative manner The macroscopic properties which are of most immediate interest in this context fall within the conventional definitions of thermodynamics magnetism elasticity dielectric susceptibilities conductivity etc These properties reflect the microscopic contributions at an atomistic level of harmonic and anharmonic lattice vibrations ionic and electronic transport as well as a great variety of ordering and clustering phenomena The advances made by solid state physicists and chemists in defining the underlying phenomena Involved in the thermal evolution of materials have stimulated major new research initiatives within the Earth Sciences Earth Scientists have combined to form active groups within the wider community of solid state and materials scientists working towards a better understanding of those physical processes which govern not only the behaviour of simple model compounds but also that of complex materials like minerals Concomitant with this change in direction has come an increasing awareness of the need to use the typical working tools of other disciplines

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The Stability of Minerals G.D. Price, N.L. Ross, 2007-11-23 30% discount for members of The Mineralogical Society of

Britain and Ireland This volume addresses the fundamental factors that underlie our understanding of mineral behaviour and crystal chemistry a timely topic given current advances in research into the complex behaviour of solids and supercomputing

An Introduction to Mineral Sciences Andrew Putnis, 1992-10-22 The subject of mineralogy is moving away from the traditional systematic treatment of mineral groups toward the study of the behaviour of minerals in relation to geological processes A knowledge of how minerals respond to a changing geological environment is fundamental to our understanding of many dynamic earth processes By adopting a materials science approach *An Introduction to Mineral Sciences* explains the principles underlying the modern study of minerals discussing the behaviour of crystalline materials with changes in temperature pressure and chemical environment The concepts required to understand mineral behaviour are often complex but are presented here in simple non mathematical terms for undergraduate mineralogy students After introductory chapters describing the principles of diffraction imaging and the spectroscopic methods used to study minerals the structure and behaviour of the main groups of rock forming minerals are covered and the role of defects in the deformation and transformation of a mineral are explained The energy changes and the rate of transformation processes are introduced using a descriptive approach rather than attempting a complete and rigorous treatment of the thermodynamics and kinetics Examples and case histories from a range of mineral groups are set in an earth science context such that the emphasis of this book is to allow the student to develop an intuitive understanding of the structural principles controlling the behaviour of minerals

ENERGY MODELLING IN MINERALS C.M. Gramaccioli, 2002-01-01 Nothing provided **Thermodynamics in Earth and Planetary Sciences** Jibamitra Ganguly, 2009-06-29 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

Physics and Chemistry of Earth Materials Alexandra Navrotsky, 1994-11-25 With an approach that stresses the fundamental solid state behaviour of minerals and with emphasis on both theory and experiment this 1995 text surveys the physics and chemistry of earth materials It starts with a systematic tour of crystal chemistry of both simple and complex structures with completely new structural drawings and discusses how structural and thermodynamic information is obtained experimentally The quantitative concepts of chemical bonding band theory molecular orbit and ionic models are reviewed The book goes on to discuss physical properties and to relate microscopic features to macroscopic thermodynamic behaviour The book then discusses high pressure phase transitions amorphous materials and solid state reactions and concludes with a look at the interface between mineral physics and materials science Highly illustrated throughout this book fills the gap

between undergraduate texts and specialised review volumes for students in earth sciences and materials science

Modelling of Minerals and Silicated Materials B. Silvi, P. D'Arco, 2006-04-11 The modeling of minerals and silicated materials is a difficult challenge faced by Solid State Physics Quantum Chemistry and Molecular Dynamics communities The difficulty of such a modeling is due to the wide diversity of elements including heavy atoms and types of bonding involved in such systems Moreover one has to consider infinite systems either perfect crystals or glasses and melts In the solid state a given chemical composition gives rise to numerous polymorphs geometrically closely related These polymorphs have very similar energies and related thermodynamical properties which explain the complexity of their phase diagrams The modeling of silicates and minerals covers a wide field of applications ranging from basic research to technology from Solid State Physics to Earth and Planetary science The use of modeling techniques yields information of different nature In the case of chemical studies we can mention investigations on catalytic processes occurring on surfaces and in zeolite cages These calculations find possible applications in chemical engineering in particular in the oil industry

Feldspars and their Reactions Ian Parsons, 2012-12-06 Feldspar minerals make up 60% of the crust of the Earth They are stable in the upper mantle and are so abundant in the crust that they form the basis of the classification of igneous rocks At the surface feldspars weather to form clay minerals which are the most important mineral constituent of soils The articles in this book review the chemical reactions of feldspars over the whole sweep of pressure and temperature regimes in the outer Earth and describe the fundamental aspects of crystal structure which underlie their properties The book covers intracrystalline reactions such as order disorder transformations and exsolution and transfer of stable and radiogenic isotopes which can be interpreted to provide insights into the thermal history of rocks It is suitable for final year undergraduates or research workers

Earthquake Thermodynamics and Phase Transformation in the Earth's Interior Roman Teisseyre, Eugeniusz Majewski, 2000-10-19 A group of distinguished scientists contributes to the foundations of a new discipline in Earth sciences earthquake thermodynamics and thermodynamics of formation of the Earth's interior structures The predictive powers of thermodynamics are so great that those aspiring to model earthquake and the Earth's interior will certainly wish to be able to use the theory Thermodynamics is our only method of understanding and predicting the behavior of many environmental atmospheric and geological processes The need for Earth scientists to develop a functional knowledge of thermodynamic concepts and methodology is therefore urgent Sources of an entropy increase the dissipative and self organizing systems driving the evolution and dynamics of the Universe and Earth through irreversible processes The non linear interactions lead to the formation of fractal structures From the structural phase transformations the important interior boundaries emerge Non linear interactions between the defects in solids lead the authors to develop the physics of continua with a dense distribution of defects Disclinations and dislocations interact during a slow evolution as well as during rapid dynamic events like earthquakes Splitting the dynamic processes into the 2D fault zone and 3D surrounding space brings a new tool for

describing the slip nucleation and propagation along the earthquake faults Seismic efficiency rupture velocity and complexity of seismic source zone are considered from different points of view fracture band earthquake model is developed on the basis of thermodynamics of line defects like dislocations Earthquake thermodynamics offers us a microscopic model of earthquake sources Physics of defects helps the authors describe and explain a number of precursory phenomena caused by the buildup of stresses Anomalies in electric polarization and electromagnetic radiation prior to earthquakes are considered from this point of view Through the thermodynamic approach the authors arrive at the fascinating question of possibility of earthquake prediction In general the Earth is considered here as a multicomponent system Transport phenomena as well as wave propagation and shock waves are considered in this system subjected also to chemical and phase transformations

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