



REVIEWS in MINERALOGY

Volume 5
SECOND EDITION

ORTHO- SILICATES

PAUL H. RIBBE, Editor

C O N T E N T S

CLASSIFICATION of SILICATES

SILICATE GARNETS

ZIRCON

The ACTINIDE ORTHOSILICATES

TITANITE (SPHENE)

CHLORITOID

STAUROLITE

KYANITE, ANDALUSITE and Other Aluminum Silicates

TOPAZ

The HUMITE SERIES and Mn-ANALOGS

OLIVINES and SILICATE SPINELS

MISCELLANEOUS ORTHOSILICATES

ORTHOSILICATES with SiO_2 , POLYMERIZED to Other

TETRAHEDRAL POLYANIONS

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MINERALOGICAL SOCIETY OF AMERICA

Reviews In Mineralogy Vol 5 Second Edition 1982

Orthosilicates

Ian S. E. Carmichael, Hans Eugster



Reviews In Mineralogy Vol 5 Second Edition 1982 Orthosilicates:

Orthosilicates Roger G. Burns, 2018-12-17 Volume 5 of Reviews in Mineralogy emphasizes the crystal chemistry and related physical properties of the major rock forming orthosilicates. Though in some chapters more attention is given to phase equilibria and paragenesis than in others, these are for the most part cursorily treated with references to the more important papers and to review articles. Also see Deer, Howie and Zussman 1962 *Rock forming Minerals* Vol 1 Ortho and Ring Silicates.

Characterization of Metamorphism through Mineral Equilibria John M. Ferry, 2018-12-17 Volume 10 of Reviews in Mineralogy reviews the use of a powerful probe into metamorphic process: mineral assemblages and the composition of minerals. Put very simply, this volume attempts to answer the question: What can we learn about metamorphism through the study of minerals in metamorphic rocks? It is not an encyclopedic summary of metamorphic mineral assemblages; instead, it attempts to present basic research strategies and examples of their application. Moreover, in order to limit and unify the subject matter, it concentrates on the chemical aspects of metamorphism and regrettably ignores other important kinds of studies of metamorphic rocks and minerals conducted by structural geologists, structural petrologists and geophysicists.

Stable Isotopes in High Temperature Geological Processes John W. Valley, Hugh P. Taylor, James R. O'Neil, 2018-12-17 Volume 16 of Reviews in Mineralogy introduces to high temperature stable isotope geochemistry and should provide an entry into the pertinent literature as well as some understanding of the basic concepts and potential applications. The first three chapters focus on the theory and experimental data base for equilibrium, disequilibrium and kinetics of stable isotope exchange reactions among geologically important minerals and fluids. The fourth chapter discusses the primordial oxygen isotope variations in the solar system prior to formation of the Earth, along with a discussion of isotopic anomalies in meteorites. The fifth chapter discusses isotopic variations in the Earth's mantle, and the sixth chapter reviews the variations in the isotopic compositions of natural waters on our planet. In Chapters 7, 8, 9 and 10, these isotopic constraints and concepts are applied to various facets of the origin and evolution of igneous rocks, bringing in much material on radiogenic isotopes as well, because these problems require a multi-dimensional attack for their solution. In Chapters 11 and 12, the problems of hydrothermal alteration by meteoric waters and ocean water are considered together with discussions of the physics and chemistry of hydrothermal systems and the ^{18}O / ^{16}O history of ocean water. Finally, in Chapters 13 and 14, these concepts are applied to problems of metamorphic petrology and ore deposits, particularly with respect to the origins of the fluids involved in those processes.

Thermodynamic Modeling of Geologic Materials Ian S. E. Carmichael, Hans Eugster, 2018-12-17 Volume 17 of Reviews in Mineralogy is based on a short course entitled *Thermodynamic Modeling of Geological Materials: Minerals, Fluids and Melts*, October 22-25, 1987, at the Wickenburg Inn near Phoenix, Arizona. Contents: Thermodynamic Analysis of Phase Equilibria in Simple Mineral Systems; Models of Crystalline solutions; Thermodynamics of Multicomponent Systems Containing Several Solid Solutions; Thermodynamic Model for Aqueous Solutions of Liquid-like Density; Models of

Mineral Solubility in Concentrated Brines with Application to Field Observations Calculation of the Thermodynamic Properties of Aqueous Species and the Solubilities of Minerals in Supercritical Electrolyte Solutions Igneous Fluids Ore Fluids Magmatic to Supergene Thermodynamic Models of Molecular Fluids at the Elevated Pressures and Temperatures of Crustal Metamorphism Mineral Solubilities and Speciation in Supercritical Metamorphic Fluids Development of Models for Multicomponent Melts Analysis of Synthetic Systems Modeling Magmatic Systems Thermodynamic Relations Modeling Magmatic Systems Petrologic Applications **Spectroscopic Methods in Mineralogy and Geology** Frank C.

Hawthorne, 2018-12-17 Volume 18 of Reviews in Mineralogy provides a general introduction to the use of spectroscopic techniques in Earth Sciences It gives an Introduction To Spectroscopic Methods and covers Symmetry Group Theory And Quantum Mechanics Spectrum Fitting Methods Infrared And Raman Spectroscopy Inelastic Neutron Scattering Vibrational Spectroscopy Of Hydrous Components Optical Spectroscopy Mossbauer Spectroscopy MAS NMR Spectroscopy Of Minerals And Glasses NMR Spectroscopy And Dynamic Processes In Mineralogy And Geochemistry X Ray Absorption Spectroscopy Applications In Mineralogy and Geochemistry Electron Paramagnetic Resonance Auger Electron And X Ray Photoelectron Spectroscopies and Luminescence X Ray Emission and New Spectroscopies The authors of this volume presented a short course entitled Spectroscopic Methods in Mineralogy and Geology May 13 15 1988 in Hunt Valley Maryland

Mathematical Crystallography Monte B. Boisen, Gerald V. Gibbs, 2018-12-17 Volume 15 of Reviews in Mineralogy is written with two goals in mind The first is to derive the 32 crystallographic point groups the 14 Bravais lattice types and the 230 crystallographic space group types The second is to develop the mathematical tools necessary for these derivations in such a manner as to lay the mathematical foundation needed to solve numerous basic problems in crystallography and to avoid extraneous discourses To demonstrate how these tools can be employed a large number of examples are solved and problems are given The book is by and large self contained In particular topics usually omitted from the traditional courses in mathematics that are essential to the study of crystallography are discussed For example the techniques needed to work in vector spaces with noncartesian bases are developed Unlike the traditional group theoretical approach isomorphism is not the essential ingredient in crystallographic classification schemes Because alternative classification schemes must be used the notions of equivalence relations and classes which are fundamental to such schemes are defined discussed and illustrated For example we will find that the classification of the crystallographic space groups into the traditional 230 types is defined in terms of their matrix representations Therefore the derivation of these groups from the point groups will be conducted using the 37 distinct matrix groups rather than the 32 point groups they represent **The Al₂SiO₅ Polymorphs** Derrill M. Kerrick, 2018-12-17 Volume 22 of Reviews in Mineralogy is a book exclusively devoted to three minerals the Al₂SiO₅ polymorphs andalusite sillimanite and kyanite It covers a wide variety of topics that must be considered in the analysis of metamorphic systems and illustrates the fact that modern metamorphic petrology demands an awareness of a wide spectrum

of geologic variables and processes This volume is intended to provide a comprehensive review summarizing the methods theories and pitfalls of the various contributions on the aluminum silicates Several sections of this book present the chronological development of research on various topics giving readers historical perspectives on the development of theories models and biases on various problems regarding the aluminum silicates *An Introduction to Mineral Sciences* A. 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 *Antarctic Journal of the United States* ,1989 **Mineral-Water Interface Geochemistry** Michael F. Hochella,Art F. White,2018-12-17 Volume 23 of *Reviews in Mineralogy* and accompanying MSA short course covers chemical reactions that take place at mineral water interfaces We believe that this book describes most of the important concepts and contributions that have driven mineral water interface geochemistry to its present state We begin in Chapter 1 with examples of the global importance of mineral water interface reactions and a brief review of the contents of the entire book Thereafter we have divided the book into four sections including atomistic approaches Chapters 2 3 adsorption Chapters 4 8 precipitation and dissolution Chapters 9 11 and oxidation reduction reactions Chapters 11 14

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