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Solutions, Minerals, and Equilibria by R. M. Garrels and C . . .

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ous systems involving salt-type minerals are examined in this work. Stability relations have been discussed on the basis of bulk equilibria. MINERAL-SOLUTION EQUILIBRIA The equilibria in selected salt-type mineral systems with special reference to calcite and apatite are examined below. Theoretical results are correlated with experimental data.

MINERAL-SOLUTION EQUILIBRIA IN SPARINGLY SOLUBLE

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ISBN: 0867201487 9780867201482: OCLC Number: 1004442220: Notes: Second ed. based on Mineral equilibria by Dr. Garrels, published in 1960. Description:

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The observed changes in the electrokinetic properties of calcite and apatite can be examined on the basis of the mineral-solution chemical equilibria involving dissolved mineral species. From studies of solubility isotherms for apatite and calcite at 25°C (Fig. 3.4, Fig. 3.5), the singular point for these minerals is identified to be 9.3. Above this pH calcite is more stable than apatite.

Chapter 3 Mineral-solution equilibria - ScienceDirect

3. SOLUTION-MINERAL EQUILIBRIA PART 1: CARBONATES. Carbonic acid and the carbonate minerals provide another good illustration of the use of equilibrium reasoning in geochemistry. Interactions among these compounds determine the conditions under which limestones and dolomites are formed or dissolved, and likewise the conditions of formation of carbonate minerals as cements in soils and sandstones and as vein fillings.

SOLUTION-MINERAL EQUILIBRIA PART 1: CARBONATES

sulted in the final version, Solutions, Minerals, and Equilibria, about twice as long, in 1965. The original edition was published by Harper; Harper was taken over by Harper & Row, which permitted the book to go out of print. Fortunately, W.H. Freeman of Freeman, Cooper & Company re-printed the book, and since 1975, it has been selling successfully.

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Based on Mineral equilibria at low temperature and pressure, by R.M. Garrels, published in 1960.

Today large numbers of geoscientists apply thermodynamic theory to solutions of a variety of problems in earth and planetary sciences. For most problems in chemistry, the application of thermodynamics is direct and rewarding. Geoscientists, however, deal with complex inorganic and organic substances. The complexities in the nature of mineralogical substances arise due to their involved crystal structure and multicomponential character. As a result, thermochemical solutions of many geological-planetological problems should be attempted only with a clear understanding of the crystal-chemical and thermochemical character of each mineral. The subject of physical geochemistry deals with the elucidation and application of physico-chemical principles to geosciences. Thermodynamics of mineral phases and crystalline solutions form an integral part of it. Developments in mineralogic thermodynamics in recent years have been very encouraging, but do not easily reach many geoscientists interested mainly in applications. This series is to provide geoscientists and planetary scientists with current information on the developments in thermodynamics of mineral systems, and also provide the active researcher in this rapidly developing field with a forum through which he can popularize the important conclusions of his work. In the first several volumes, we plan to publish original contributions (with an abundant supply of back ground material for the uninitiated reader) and thoughtful reviews from a number of researchers on mineralogic thermodynamics, on the application of thermochemistry to planetary phase equilibria (including meteorites), and on kinetics of geochemical reactions.

The literature on the geology, chemistry, and biochemistry of phosphorus generally takes its mineralogy for granted. The incidental information on phosphate minerals given in these texts is often obsolescent and inaccurate. The few mineralogical texts that have dealt comprehensively with the phosphate minerals have now become outdated, and typically present the essential information in a manner unsuitable for nongeological readers. This volume is intended as a ready reference for workers who require good basic information on phosphate minerals or their synthetic equivalents. The topics covered should appeal to geologists and geochemists, lithologists, environmental scientists and engineers, chemists and biochemists who have any interest in the intricate world of phosphorus. The hard tissues of many vertebrates and the many pathological calcifications consist mostly of phosphate minerals. The precipitation of these compounds also plays a major role in the ecological cycling of phosphorus, and occasionally even dominates the behavior of many trace metals in many geochemical and biological systems. Indeed, many pegmatitic phosphate minerals have acquired some notoriety because of the rarer trace metals which they tend to accumulate. With the commercialization of phosphate fertilizers since the early part of the 19th century, phosphate minerals have assumed an important role in industrial chemistry and agriculture. Clearly, the study of phosphate minerals is important from the economic, agricultural, environmental and (human and animal) health viewpoint.

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.

