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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-80LUTION 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

Article citations. More>> Garrels, R.M. and Christ, C.L. (1965) Solutions, Minerals and Equilibria. W. H. Freeman, San Francisco, 450 p. has been cited by the ...

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ISBN: 0867201487 9780867201482: OCLC Number: 21346795: Notes: "A second edition based on the earlier book, Mineral equilibria, written by Dr. Garrels and published in 1960, in the Harper's geoscience series"--Page vii.

### Solutions, minerals, and equilibria (Book, 1990) [WorldCat ...

SOLUTION-MINERAL EQUILIBRIA PART 1: CARBONATES 67 Thus the solubility is raised to a figure about twice as large as the  $6.8 \times 10^{-5}m$  obtained by simply taking the square root of the solubility product [Eq. (3-7)]. At the same time the OH<sup>-</sup> concentration is lowered slightly, so that the pH is approximately 9.9 instead of 10.0.

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Solutions, Minerals, and Equilibria Robert Minard Garrels, Charles Louis Christ Snippet view - 1965. Common terms and phrases. activity coefficients approximately aqueous association assumed atmosphere total pressure becomes behavior boundary cal/deg calculated carbonate cations Chapter chemical complex composition compounds concentration ...

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### BOOK REVIEWS

The book Solutions, Minerals, and Equilibria co-authored in 1965 by Garrels and Charles L. Christ revolutionized aqueous geochemistry. Garrels earned a bachelor's degree in geology from The University of Michigan in 1937. He went on to earn an M.S. degree from Northwestern in 1939, his thesis work was on iron ores of Newfoundland in 1938.

### Robert Garrels - Wikipedia

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