

Fluid Rock Interactions during Metamorphism (Advances in Physical Geochemistry)



The fifth volume in this series is focused on the chemical and physical interactions between rocks undergoing metamorphism and the fluids that they generate and that pass through them. The recognition that such processes can profoundly affect the course of metamorphism has resulted in a number of recent papers and we consider that it is time for a review by some of the interested parties. We hope our selection of contributors provides an adequate cross section and demonstrates some of the flavor of this rapidly developing field. A cursory examination of the volume will reveal that there are widely divergent opinions on the compositions of metamorphic fluids and on the ways in which they interact physically and chemically with the rocks through which they pass. Since our own views are extensively discussed in Chapters 4 and 8, we leave the reader to determine his own brand of the truth. We wish to thank D. Bird, S. Bohlen, D. Carmichael, G. Flowers, C. Foster, C. Graham, E. Perry, J. Selverstone, R. Tracy, J. Valley, and R. Wollast for their chapter reviews. Thanks are also due C. Cheverton for her editorial assistance, and the helpful staff at Springer-Verlag New York.

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36-59 Cite as Part of the Advances in Physical Geochemistry book series (PHYSICAL GEOCHEMISTRY, volume 5) A historical review of metamorphic fluid flow - Wiley Online Library Fluid-Rock Interactions during Metamorphism pp 154-193 Cite as Part of the Advances in Physical Geochemistry book series (PHYSICAL GEOCHEMISTRY, Circular - Google Books Result Stable Isotope Geochemistry of Geofluids The fluid-rock interaction is an exchange of isotopes and/or elements taking place at . Thus, the fluid released during the prograde metamorphism may remain trapped . (2) physical processes caused by excessive flow rates and pressure gradients. . Advances in Geophysics. Fluid-Rock Interactions during Metamorphism (Advances in Physical Geochemistry, vol 5), Walther, J.V., Wood, B.J., Eds., New York, Mass transfer during wall-rock alteration: An example from a quartz