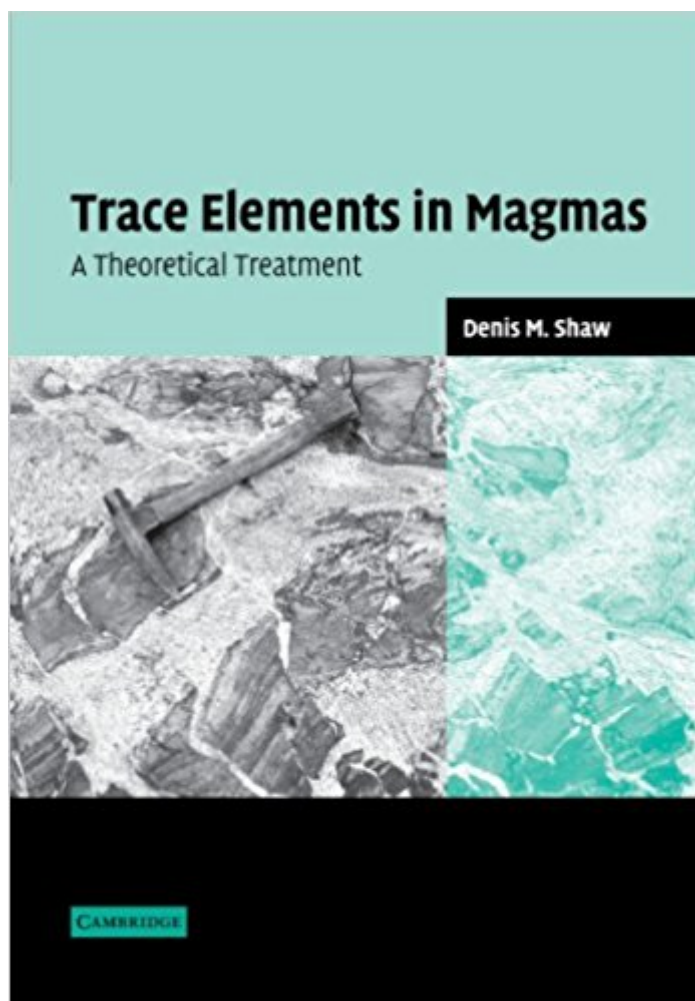


The book was found

Trace Elements In Magmas: A Theoretical Treatment



Synopsis

Studying the distribution of certain elements, present in very low concentrations in igneous and metamorphic rocks, can yield important clues about the rocks' origin and evolution. Trace elements do not give rise to characteristic minerals, but their behaviour can be modelled to provide historical information about the source magma. This book brings together the essential theory required to understand the behaviour of trace elements in magmas and magma-derived rocks. It presents a wide range of models and mechanisms which explain trace element distribution. Trace Elements in Magmas provides an excellent resource for graduate students, petrologists, geochemists and mineralogists, as well as researchers in geophysics and materials science.

Book Information

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'... a very clearly written book that will find extensive use by advanced undergraduates and will act as an excellent reference for the postgraduate and research community.' Journal of Geological Magazine

Taking a mathematical approach, this book brings together the essential theory required to understand the behaviour of trace elements in magmas and magma-derived rocks. It provides an excellent resource for graduate students, petrologists, geochemists and mineralogists, as well as researchers in geophysics and materials science.

The Shaw's book 'trace elements in magmas' is the up-to-dated description of the available

mathematical methods of modeling trace elements in igneous systems. It covers since the more simple Rayleigh fractional crystallisation and batch partial melting mechanisms until the most complex dynamic melting. It is well illustrated, concise, and has a number of useful references.

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