



Metasomatism in Oceanic & Continental Lithospheric Mantle - Special Publication no 293 (Geological Society Special Publication) (No. 293)

By M. Coltorti

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Twenty years have passed since Menzies & Hawkesworth extended the concept of metasomatism to mantle processes. The aim of this book is to gather together progress made on this topic since then. Most of the 14 papers reported in the volume rely on in situ major and trace element analyses of minerals and glasses in mantle xenoliths, and deal with different kinds of metasomatic agents at variable fluid/rock ratios in tectonic settings as different as intra-plate, mid-ocean ridge (ophiolites) and supra-subduction. The book contributes to the wide debate on the nature of the fluids migrating into the mantle wedge, as well as on the different residential times of the subduction signature. In addition papers on intra-plate settings deal with the problem of relating various metasomatic signatures to one single metasomatic event through an infiltration-reaction process.

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Editorial Review

Review

This well-written book is illustrated with numerous color photographs, and simple tables are included in several chapters. Some chapters have black-and-white illustrations that work well.

The book is 361 pages long, hard bound, and hefty, and appears to be free of typographical errors. The compilation is a valuable, detailed documentation of case studies and includes introductory paragraphs in several chapters. Every geology library should have a copy, and the book will be of use to graduate students, postdoctoral fellows, and teachers/professors of geochemistry and petrology. --Shantanu Kesha. Bayerisches Geoinstitut, Germany

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