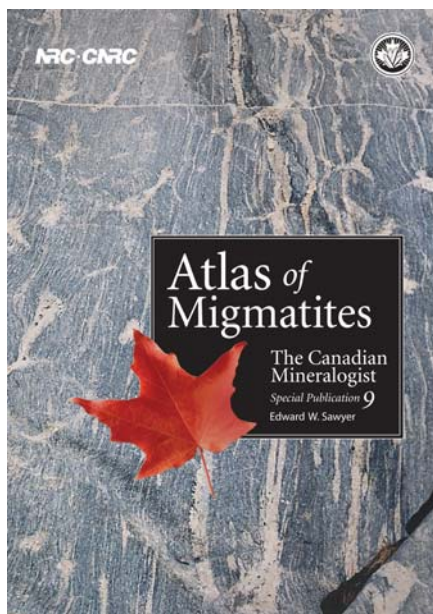


# Mineralogical Association of Canada



Special Publication 9

## ATLAS OF MIGMATITES

by Edward W. Sawyer

Migmatites are highly heterogeneous rocks found in high-grade metamorphic environments. However, many geologists are deterred from working with them by their complex appearance and an unhelpful non-genetic nomenclature. Through description and photographs, the *Atlas of Migmatites*, by Edward Sawyer, provides the background necessary to describe and map migmatites effectively and to understand how combinations of factors and processes produce morphological diversity. Because of the heterogeneity of migmatites, it is essential to understand them at the outcrop scale before moving to smaller scales. Therefore, the presentation in the *Atlas* proceeds from outcrop to grain scale.

The *Atlas* starts by explaining that migmatites are rocks produced by partial melting. The book uses genetically based definitions and nomenclature. Hence, the identification of a migmatite hinges on finding evidence for partial melting, and the *Atlas* describes and illustrates many microstructures that can be used to infer the presence of melt or a melt-producing reaction. The *Atlas* includes the results from two decades of research in

the fields of whole rock geochemistry, experimental studies on partial melting, analysis of microstructures, and the experimental deformation of partially molten rocks. The book describes how geochemical data can be used to infer petrological processes involved in migmatite development.

The *Atlas* is exceptionally well illustrated, and the lengthy captions accompanying the 272 color figures provide description and analysis of migmatites not previously available.

ISBN 978-0-660-198787 SP 9, 387 pages, 2008

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