



# Atlas of Mylonites - and related microstructures

By Rudolph A. J. Trouw, Cees W. Passchier, Dirk Siersma

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**Atlas of Mylonites - and related microstructures** By Rudolph A. J. Trouw, Cees W. Passchier, Dirk Siersma

Mylonites form in response to high rates of strain within deep ductile shear zones, which are the extensions at depth of surface faults, thrusts and fault breccias. They can have many different mineralogical compositions and are therefore defined on their textural appearance. This atlas provides high definition images of a large number of different mylonites allowing students and geologists to correctly classify them with greater ease. It also provides insights into the interpretation of mylonitic fabrics to answer questions such as; from what type of rock did this mylonite derive? What were the metamorphic circumstances during mylonitization? What was the intensity of deformation?, and What was the sense of shear?

This book will complement the very successful textbook 'Microtectonics' by Passchier and Trouw.

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## **Editorial Review**

### **Review**

From the reviews:

“The Atlas of Mylonites is a remarkable compendium of information and imagery on the fascinating topic of intensely deformed rocks. ... the book offers readers the ability to learn on their own how to interpret deformation histories contained in mylonites. ... The print quality and use of color is excellent. ... This work is a welcome new reference and teaching resource, valuable for professionals and students ... . Summing Up: Highly recommended. Geology collections serving upper-division undergraduates and above.” (J. S. Lackey, Choice, Vol. 48 (2), October, 2010)

### **From the Back Cover**

1. Mylonites form in response to high rates of strain within deep ductile shear zones, which are the extensions at depth of surface faults, thrusts and fault breccias. They can have many different mineralogical compositions and are therefore defined by their textural appearance. This atlas provides high definition images of a large number of different mylonites allowing students and geologists to correctly classify them with greater ease. It also offers insights into the interpretation of mylonitic fabrics to answer questions such as: from what type of rock did this mylonite derive? what were the metamorphic circumstances during mylonitization? what was the intensity of deformation? and what was the sense of shear?

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