



# Petrogenesis of Metamorphic Rocks

By Kurt Bucher, Rodney Grapes

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**Petrogenesis of Metamorphic Rocks** presents a large number of diagrams showing the stability relations among minerals and groups of minerals found in metamorphic rocks. The diagrams help to determine the pressure and temperature conditions under which a given set of metamorphic rocks may have formed. Other parameters that control metamorphic mineral assemblages are also discussed and pitfalls resulting from simplifications and generalizations are highlighted. The book discusses the most common metamorphic rock types, their nomenclature, structure and graphical representation of their mineral assemblages.

Part I defines basic principles of metamorphism, introduces metamorphic processes, geologic thermometry and barometry and defines metamorphic grade. Part II presents in a systematic way mineralogical changes and assemblages found in the most common types of metamorphic rocks. The computation of diagrams is based on recent advances in quantitative petrology and geochemistry. An extensive bibliography, including the key contributions and classic papers in the field, make it an invaluable source book for graduate students and professional geologists.

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## **Petrogenesis of Metamorphic Rocks** By Kurt Bucher, Rodney Grapes Bibliography

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### **Editorial Review**

#### Review

From the reviews of the seventh edition:

"Petrogenesis of Metamorphic Rocks is, like the preceding six editions, a fine and important book. By and large, it is precise and accurate, clearly written, logically organized and well focused. It is suitable as a text for serious, no-nonsense, one-semester undergraduate course in metamorphic petrology ... 'Winkler's 7<sup>th</sup>' is a suitable text for the graduate level." (Tomas Feininger, *The Canadian Mineralogist*, Vol. 40, 2003)

"This new edition of a classic text has packed in even more information than the previous editions. Extensive lists of up to date references, use of the most current data, and lists of currently available software and appropriate web sites add to the comprehensive content. ... basic historical and scientific fundamentals are well covered and the very structured layout of the text makes basic information relatively easily to retrieve. ... an excellent update to an excellent text." (Suzanne Miller, *Geoscientist*, Vol. 13 (9), 2003)

"Petrogenesis of Metamorphic Rocks has been written with the intention of giving senior level undergraduate and postgraduate students the practical knowledge and understanding needed to interpret metamorphic rocks ... Overall the book is well presented and up-to-date ... this is definitely one of the best texts available for advanced courses in metamorphic petrology, or for individuals wanting a modern reference text. I thoroughly enjoyed reading it and I am sure I will use it as a source of information for teaching and research." (Ian Fitzsimons, *The Australian Geologist*, Issue 129, 2003)

#### From the Back Cover

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### **Users Review**

#### **From reader reviews:**

#### **Mary Muncy:**

This Petrogenesis of Metamorphic Rocks is great guide for you because the content which is full of

information for you who always deal with world and still have to make decision every minute. That book reveal it info accurately using great plan word or we can say no rambling sentences included. So if you are read the item hurriedly you can have whole facts in it. Doesn't mean it only offers you straight forward sentences but challenging core information with splendid delivering sentences. Having Petrogenesis of Metamorphic Rocks in your hand like finding the world in your arm, facts in it is not ridiculous 1. We can say that no e-book that offer you world throughout ten or fifteen minute right but this reserve already do that. So , this is certainly good reading book. Hey Mr. and Mrs. stressful do you still doubt which?

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