

## Petrology Igneous Sedimentary And Metamorphic

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This is a very good introductory petrology text which combines igneous, sedimentary and metamorphic petrology in one volume. With a publication date of 1996, it may be getting a little long in the tooth, however. For example, the book discusses the Wilson hot spot model without reference to mantle plumes.

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The study of the rocks is called petrology ('Petro' means 'rock' and 'logy' means 'study'). The study of rocks provides a record of the passage of time and the evolution of living things on the earth. Back to the top. TYPES OF ROCKS. There are three types of rocks present in the earth's crust – igneous, sedimentary, and metamorphic.

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Metamorphic rocks form when rocks undergo metamorphosis/changes due to heat and pressure. Igneous and sedimentary rocks mainly undergo this change and become metamorphic rocks. The existing rock type which undergoes a change is referred to as the protolith.

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Petrology is the branch of geology that studies rocks and the conditions under which they form. Petrology has three subdivisions: igneous, metamorphic, and sedimentary petrology. Igneous and metamorphic petrology are commonly taught together because they both contain heavy use of chemistry, chemical methods, and phase diagrams. Sedimentary petrology is, on the other hand, commonly taught together with stratigraphy because it deals with the processes that form sedimentary rock.

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There are two main branches of sedimentary petrology. One branch deals with carbonate rocks, namely limestones and dolomites, composed principally of calcium carbonate ( calcite) and calcium magnesium carbonate (dolomite). Much of the complexity in classifying carbonate rocks stems partly from the fact that many limestones and dolomites have been formed, directly or indirectly, through the influence of organisms, including bacteria, lime-secreting algae, various shelled organisms (e.g ...

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