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Petrology: The Study of Igneous, Sedimentary and Metamorphic Rocks Loren A. Raymond. 3.9 out of 5 stars 4. Hardcover. 24 offers from \$5.00. Principles of Igneous and Metamorphic Petrology (2nd Edition) John D. Winter. 3.7 out of 5 stars 36. Hardcover. \$119.91.

This is a junior-level igneous and metamorphic petrology course that is meant to give students practical and theoretical backgrounds for identifying, classifying and interpreting igneous and metamorphic rocks, generally in a tectonics context. The course is a 3 credit course, with two hours of lecture and 3 hours of lab per week.

Igneous petrology. Igneous petrology is concerned with the identification, classification, origin, evolution, and processes of formation and crystallization of the igneous rocks. Most of the rocks available for study come from the Earth's crust, but a few, such as eclogites, derive from the mantle.

Igneous and Metamorphic rocks are chemically unstable at the earth's surface, since they formed deep within the earth. Sedimentary rocks are chemically stable at the earth's surface because they form from rocks at the surface.

There are three main branches of petrology, namely: igneous, sedimentary, and metamorphic. Igneous Petrology. Igneous petrology is a branch that specializes in the scientific study of igneous rocks, their chemical composition and texture. Igneous rocks are rocks formed when magma or molten rock is crystallized to form granite or basalt. Igneous rocks may be formed through crystallization or may involve a different process that cools or solidifies the molten rock.

Now in a thoroughly updated new edition (the first since 1995), Petrology remains the most student-friendly undergraduate level text covering all three major rock groups. As always, the new edition organizes a vast body of literature from its wide-ranging subject, presenting what is essential to geology majors in a way that is accessible and at an appropriate level.

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metamorphic facies typical of seafloor alteration of the oceanic crust around mid-ocean ridge spreading centres. It is a metamorphic grade transitional between zeolite facies and greenschist facies representing a temperature range of 250 to 350 °C and a pressure range of approximately two to seven kilobars.

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Petrology is the study of rocks - igneous, metamorphic, and sedimentary - and the processes that form and transform them. Mineralogy is the study of the chemistry, crystal structure and physical properties of the mineral constituents of rocks.

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Metamorphic petrology Metamorphism means change in form. In geology the term is used to refer to a solid-state recrystallization of earlier igneous, sedimentary, or metamorphic rocks.

Petrology has three subdivisions: igneous, metamorphic, and sedimentary petrology. Igneous and metamorphic petrology are commonly taught to-

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sophomore or junior who is exposed to a first course in petrology. This they have done within a modern framework of plate tectonic theory. Igneous and sedimentary rocks are each allotted about 250 pages and metamorphic rocks arc treated in about 180 pages. The section on igneous rocks begins with a chapter on field occurrences, types of

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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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