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Basalts and phase diagrams : an introduction to the ...

Basalts and phase diagrams: An introduction to the quantitative use of phase diagrams in igneous petrology. S.A. Morse. Springer, Berlin, 1980. XVI + 493 ...

Book Review: Basalts and phase diagrams: An introduction ...

The upper part of the mantle consists of the rock peridotite, which is even more mafic than basalt, so much more so that it's called ultramafic.Where the Earth's plates are pulled apart, at the mid-ocean ridges, the release of pressure on the peridotite makes it start to melt—the exact composition of the melt depends on many details, but in general it cools and separates into the minerals ...

What is Basalt?

Abstract. The phase relations of three basalts, the Picture Gorge tholeiite, the 1921 Kilauea olivine tholeiite, and the 1801 Hualalai alkali basalt, were studied at 5 kb water pressure, 680–1000°C, at the oxygen fugacities of the quartz-fayalite-magnetite (QFM) and hematite-magnetite (HM) buffers.

Phase Relations of Basalts in their Melting Range at PH2O ...

Figure 10.6 Phase diagram (partly schematic) for a hydrous mantle system, including the H2O-saturated lherzolite solidus of Kushiro et al. (1968), the dehydration breakdown curves for amphibole (Millhollen et al., 1974) and phlogopite (Modreski and Boettcher, 1973), plus the ocean and shield geotherms of Clark

Chapter 10: Mantle Melting and the Generation of Basaltic ...

Basalts We first have to talk about ternary phase diagrams. These are an analog for the crystallization of basaltic melts. (see Hess ch. 7) Ternary liquidus diagrams These "hide" information about the subsolidus - only show liquidus data (liquid and coexisting crystals)

12.109 Lecture Notes October 13, 2005 Ternary liquidus ...

diagram illustrating the liquidus temperatures in the Di-An-Fo system at atmospheric pressure (0.1 MPa). After Bowen (1915), A. J. Sci., and Morse (1994), Basalts and Phase Diagrams. Krieger Publishers. This is a good analog of a basaltic magma WHY? Liquidus resembles 3 hills with summits at An, Di and Fo with intervening valleys (cotectics) Arrows

C = 3, Ternary Systems

alkaline basalts from a chemically uniform mantle Variables (other than X) Temperature Pressure Figure 10-2 Phase diagram of aluminous lherzolite with melting interval (gray), sub-solidus reactions, and geothermal gradient. After Wyllie, P. J. (1981). Geol. Rundsch. 70, 128-153.

Mantle Melting and Origin of Basaltic Magma

The projected phase diagram shown here is the system Ol-Cpx:SiO 2, the front face of the basalt tetrahedron. Shown on the diagram is the projected cotectic along which Ol + Plag + Cpx + Liquid are in equilibrium as determined by 1 atmosphere experiments on numerous basalt compositions.

Basaltic & Gabbroic Rocks

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diagrams If pseudo/liquidus phase diagrams are going to be valuable for testing and refining petrologic theory, it is obvious that some improvements must be made in exist-ing pseudo-liquidus diagrams. One change that signifi-cantly improves the chemical trends within the suite of oceanic basalts discussed above is to construct them on

Isomolar and isostructural pseudo-liquidus phase diagrams ...

"A phase diagram for mid-ocean ridge basalts: Preliminary results and implications for petrogenesis." Contrib Mineral Petrol 74 (1980): 13-27. Klein, and Langmuir. "Global Correlations of Ocean ridge basalt chemistry, axial depth, crustal thickness." J Geophys Res 92 (1987): 8089-8115. ———. "Local versus global variations in ocean ridge ...

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liquidus phase diagrams for evaluating and predicting the nature of primary magmas and melting of the mantle at high pressures. These pseudo-liquidus phase diagrams suggest that "primitive" oceanic basalts with >9.5Vo MgO are derived from primary oceanic basalts generated at 15 to 25 kbars.

High-pressure phase equilibria of a high-magnesia basalt ...

These phase diagrams imply that plasma membranes in cells can have a wide range of phase properties, and in turn, a wide range of differences in properties of coexisting phases. For example, protein partitioning between Ld and Lo domains might vary considerably depending upon details of composition, especially fraction of cholesterol.

Lipid Bilayers: Clusters, Domains and Phases

Ti basalts. The age of the orange glass sample 74220 is younger than the Apollo 17 basalts and could be the cause of the dark mantle that covers the edge of Mare Serenitatis. Figure 11 - The composition of the four basalt samples in this study set compared with the composition of other lunar basalts. Compositions

Mare Basalt Volcanism

This work presents the petrographic and geochemical data of the dolerite dykes crosscutting the Pan-African basement of Figuil (North-Cameroon) and Léré (South-West Chad) in order to approach their petrogenesis and their emplacement context. Two groups of dolerites have been highlighted by petrographic and geochemical studies. These groups were discriminated by their TiO2, Fe2O3, REE, Ba, Nb ...