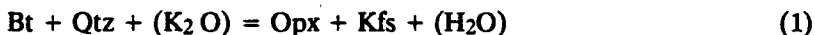


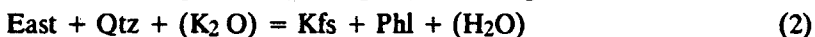
Charnockitization

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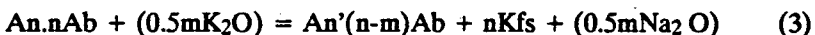
Studies of charnockites and charnockitic gneisses show that the paragenesis Opx + Kfs appears as a result of metasomatic alteration of metapelites and metabasites under the granulite facies conditions:



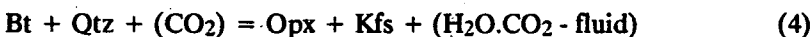
(Korzhinskii 1962). Strong negative correlation between the An content of Pl and Al^{VI} of coexisting biotite (see Figure) according to reactions:



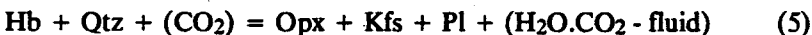
and



provides evidence for high-potassium activity in the course of the charnockitization process (Korzhinskii 1962). On the other hand, the reactions



or



may also play a role in the process (Condie *et al.* 1982; Janardhan *et al.* 1982; Newton 1986; Perchuk 1989). The reactions (1)-(5) are exemplified by textures and probe analyses of charnockitic rocks from eastern Siberia and India.

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