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Fluids in the Crust: Equilibrium and transport properties (Paperback)

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Springer, Netherlands, 2012. Paperback. Condition: New. Language: English. Brand new Book. For much of the 20th century, scientific contacts between the Soviet Union and western countries were few and far between, and often superficial. In earth sciences, ideas and data were slow to cross the Iron Curtain, and there was considerable mutual mistrust of diverging scientific philosophies. In geochemistry, most western scientists were slow to appreciate the advances being made in the Soviet Union by O.S. Korzhinskii, who put the study of ore genesis on a rigorous thermodynamic basis as early as the 1930s. Korzhinskii appreciated that the most fundamental requirement for the application of quantitative models is data on mineral and fluid behaviour at the elevated pressures and temperatures that occur in the Earth's crust. He began the work at the Institute of Experimental Mineralogy (IEM) in 1965, and it became a separate establishment of the Academy of Sciences in Chernogolovka in 1969. The aim was to initiate a major programme of high P-T experimental studies to apply physical chemistry and thermodynamics to resolving geological problems. For many years, Chernogolovka was a closed city, and western scientists were unable to visit the laboratories,...

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