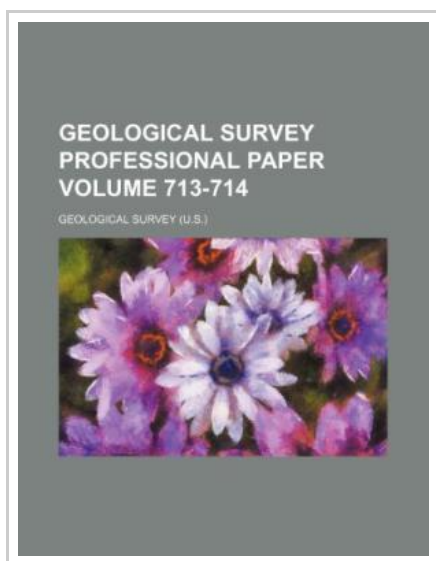



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Geological Survey Professional Paper Volume 713-714 (Paperback)

By Geological Survey

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. Excerpt: .chloride (Hg_2Cl_2) is only slightly soluble (0.002 g/1 (gram per liter) or 2,000 ppb). It has a strong tendency to dismutate according to the reaction $\text{Hg}_2^{2+} \rightarrow \text{Hg} + \text{Hg}^{2+}$ under aqueous conditions (Sidgwick, 1950, p. 294). This reaction may be promoted by ultraviolet radiation (Sidgwick, 1950, p. 295). James (1962) suggested incorrectly cited by Rankama and Sahama (1950, p. 718) as 2 ppb. gested that the rather insoluble basic sulfate salt $\text{Hg}_2\text{SO}_4 \cdot \text{H}_2\text{O}$ is also likely to form as the result of oxidation of mercury-bearing sulfide ores. Mercuric chloride, HgCl_2 , being highly soluble (69 g/1 at 25C), will be readily leached by rainfall and carried to streams by runoff, underflow, or ground water discharge. Rainfall-induced erosion and leaching also convey a part of the atmospheric mercury, previously returned to the land surface, to streams and other waters. Of course, a part of the atmospheric mercury is returned directly to...



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