

## Geological Survey professional paper Volume 1181-1983



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### ***Reviews***

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***(Kevin Bergstrom Sr.)***

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 34 pages. 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. 1983 Excerpt: . . . monazite crystals as much as 1 cm across in tin veins at Llallagua, Bolivia, contain no Th or Eu but, like the low-Thhigh Eu monazite from Malaysia, are associated with cassiterite (Gordon, 1939, 1944). A monazite from Belorussia, U. S. S. R. , contains 0. 11 percent ThO<sub>2</sub>, has about 0. 07 percent Eu<sub>2</sub>O<sub>3</sub>, is pale greenish yellow, and is thought to be of metasedimentary origin (Serdyuchenko and others, 1967). Six pinkish-yellow monazites from the southern Urals have no ThO<sub>2</sub> and about 0. 1-0. 5 percent Eu<sub>2</sub>O<sub>3</sub>, and six yellow monazites from the Pamir Range contain about 1. 8-3. 6 percent ThO<sub>2</sub> and 0. 1-0. 4 percent Eu<sub>2</sub>O<sub>3</sub> (Komov and others, 1974). A pneumatolytic white to red and brown-red monazite in the northern Caucasus contains about 2. 39 percent ThO<sub>2</sub> and 0. 06 percent Eu<sub>2</sub>O<sub>3</sub> (Ploshko, 1961). Earthy monazite from a vein in carbonatite at Magnet Cove, Ark. , U. S. A. , contains no detectable Th, and the low content of Th as well as of Y is thought to be characteristic of monazites from alkalic rocks (Rose and others, 1958, p. 996). Abnormally low ThO<sub>2</sub> (0. 08 percent) is recorded for pistachio-green and colorless monazites from a carbonatite at Kangankunde Hill, Malawi, and the Eu<sub>2</sub>O<sub>3</sub> content is 0. 05 percent (Holt, 1965). A high Th content in monazites is directly related to high-grade conditions of temperature and pressure during magmatic or metamorphic crystallization (Overstreet, 1967, table 2; Overstreet and others, 1969). The greatest amounts of ThO<sub>2</sub> Table 10. --Comparison...



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