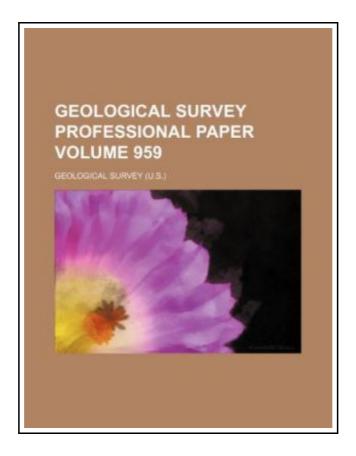
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## Reviews

The publication is fantastic and great. It can be rally exciting through reading period of time. I am just very happy to inform you that this is the greatest publication i actually have read in my very own daily life and could be he very best ebook for at any time.

(Prof. Alvis Wuckert)

### GEOLOGICAL SURVEY PROFESSIONAL PAPER VOLUME 959



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: .abundant titanaugite, olivine, and fine magnetite-ilmenite intergrowths. The anorthositic gabbro was intruded by basaltic magma of a second period of magmatic activity, which formed layered rocks consisting chiefly of troctolite, olivine gabbro, feldspathic gabbro, and syenogabbro. These rocks are 4,500 m thick and show local rhythmic layering, fluxion structure, and gravity stratification. The entire series is cut by bodies of ferrogranodiorite and granophyre and late dikes of basalt and aplite. The irontitanium oxide minerals are most abundant near the top of the series, in olivine metagabbro where distinct layers of iron ores are seen and in magnetite syenogabbro where magnetite averages 12 percent by volume. The oxide minerals are apparently a product of the trend of iron-titanium enrichment during the course of differentiation and fractionation, as at Michigamau. Both the Michigamau and the Duluth complexes contain fairly large bodies that are high in Ti02, but no economic titanium deposits have been found in them despite intensive search. The fine-grained intergrowths of magnetite and ilmenite rather than discrete ilmenite grains (Grout, 1950; Grout and others, 1959) render the deposits an economically unimportant source of titanium at present. ANDESINE ANORTHOSITE MASSIFS The andesine anorthosites are the most widespread massifs and contain the largest known titanium deposits (Isachsen, 1968). They generally occur as intrusives in granulite or upper amphibolite metamorphic terranes and are, in turn, intruded by a suite of charnockitic rocks, which are characterized by perthitic feldspars and orthopyroxene rather than by two feldspars and hydrous mafic minerals. The...



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