



## Geology and Petrochemistry of Granitic Pegmatite in Jema'a Pegmatite Field, Kaduna State

By Ahmed Isah Haruna

GRIN Verlag Jun 2013, 2013. Taschenbuch. Book Condition: Neu. 210x148x15 mm. This item is printed on demand - Print on Demand Neuware - Doctoral Thesis / Dissertation from the year 2012 in the subject Geography / Earth Science - Geology, Mineralogy, Soil Science, grade: 'none', Abubakar Tafawa Balewa University (School of Science), course: Economic Geology-Mineral Exploration, language: English, abstract: The research work 'Geology and Petrochemistry of Granitic Pegmatites in Jema'a Field' is a systematic study of the pegmatites in relation to the adjoining granitoids (biotite muscovite granite, albite granite and granite aplite) with a view to understanding their geological and geodynamic evolution and subsequent economic potential through the behavior of rare elements. The field work was conducted on a scale of 1:50,000. 33 rocks and mineral separates extracted from pegmatites were analyzed. The samples were subdivided into two parts; one part was analyzed using X-Ray Fluorescence to generate data on major and minor elements, while Instrumental Neutron Activation Analysis was used to generate data on trace elements. The other part of the samples was made into thin section for petrographic studies. Petrochemical and petrographic interpretations concur on the changes in colour of micas from brown biotite in granitoids to...



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