

Anisotropy of Magnetic Susceptibility of Tanzawa tonalite and its implications for magmatic flow directions

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The fabrics of Tanzawa tonalite are analyzed based on anisotropy of magnetic susceptibility of granitic rocks. Lineation and foliations are obtained from the data, which are further classified into primary magmatic and secondary tectonic fabrics according to field and microscopic observations. Magmatic fabrics show that upwelling centers of granitic magma indicated by vertical lineation are located in east-central, north-central and northwestern portions of the mass, and that east-west trending nearly horizontal magmatic flows, in accordance with the out-line of the Tanzawa tonalite, are characteristically predominant throughout the body.