

Aspects of fractured zones occurred in some felsic granitoids in Japan

Daisuke Miura[1], Kazuhiro Tanaka[2], Akira Deguchi[3]

[1] Geology, CRIEPI, [2] Geol. Dep., CRIEPI, [3] Nuclear Power Engineering Dep., TEPCO

Study of fracture property by use of some statistical analyses have been made at selected 64 masses of granitic rocks in Japan, based on large amount of literature data. The dimension of fracture-bounded body over 4 km² in area accounts for over 90 percent of total area to 64 masses. Shape parameter of the bodies illustrates that the most of them form simple outline as similar as circle-ellipse or square, or triangle figures, particularly triangle shape is dominant. The fracture density increase from large to moderate-sized fractures. Fractal dimension analysis provides the negative exponent becoming to large at central Japan.