

Preliminary gravity inversion modeling across a two-dimensional dike

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Gravity investigations do have certain well-known limitations; the two most prominent perhaps being deep resolution and the non-uniqueness of the solution. These limitations can be reduced by the means of appropriate tools e.g. geological structure information and/or statistical techniques. We utilize the principles of the physical or the structural geometry of a two-dimensional dike in the process of inversion modeling across fault/tectonic line in the Chubu District, Honshu - Japan Alps. The location is most probably at point where the Tsunan-Matsumoto tectonic line interacts with the Itoigawa-Shizuoka Tectonic Line (ISTL).