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Piezomagnetic effects due to two-dimensional topography

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We have three mechanisms of enhancement of the tectonomagnetic effect. Enhancement of the changes of the geomagnetic field due to the change of stress condition occurs when (1) there exists inhomogenious distribution of magnetization (Oshiman,1990), (2) magnetic observation is carried out within magnetic substances (Sasai,1991) and (3) stress concentration is occurred with existence of irregular topographies (Sakanaka,1997). But the third mechanism was suggested only its possibility. In order to understand the mechanism more quantitatively, we pick up two-dimensional simple topography.