

# 歪力による地電流 (概報)

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## Earth Current due to Stress\*

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### ABSTRACT

In summer 1944, the author recorded the earth potential gradient and the induced current in a horizontal loop in order to investigate the pulsations in the earth magnetic field at Yabuki-machi, in Fukushima Prefecture. On that occasion, noticeable change was always recorded in the earth potential gradient when the train was running at a distance of about 300m from the nearest electrode. The amount was 1~2 mV/km. After several examinations and discussions, the mechanism may be considered to be due to the potential of flow produced by the stress of the soil which the train weighed down.

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\* The full paper will be published in near future.