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Temperature drift correction in a rigid-boom electromagnetic induction geophysical instrument

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Summary

A Frequency-domain rigid-boom electromagnetic induction (EMI) system is developed for near surface geophysical investigations. However, drifts due to thermal effects especially in the receiver circuit hinder the quantitative analyses of the true electrical conductivity distribution of the subsurface. This work presents a temperature drift correction method using a transfer function analyzer (TFA) circuit to monitor the electrical parameters of the receiver circuit together with ambient temperature sensors to monitor the read-out circuit.

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