

performed at 1000 cps for maximum sensitivity to volume changes. The transitions are all clearly shown in Fig. 11. The magnitudes of the observed inductance changes, 2.3, 0.03, 0.08% yield computed volume changes of 6.9, 0.09, and 0.24%. The scatter in the data points suggests that the ultimate sensitivity may be about 0.01%.

No attempt was made to assess sensitivity to resistivity changes. At frequencies of 1 Mc and higher, this sensitivity

appeared to be entirely adequate for all contemplated investigations.

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