

Abstracts

Application of Quarter-Wave Transformers for Precise Measurement of Complex Microwave Conductivity of Semiconductors (Short Papers)

P.K. Roy and A.N. Datta. "Application of Quarter-Wave Transformers for Precise Measurement of Complex Microwave Conductivity of Semiconductors (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.2 (Feb. 1974 [T-MTT]): 144-146.

The utility of a quarter-wave transformer for precise measurement of complex microwave conductivity of semiconductors has been demonstrated. It has been shown for a chosen conductivity of 9 Omega·cm that the improvement in measurement accuracy is nearly by a factor of 3 over the conventional reflection measurement using a Teflon transformer.

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