

Abstracts

A Computerized Klinger Cavity Mode Conversion Test Set

B.S. Seip and L.W. Hinderks. "A Computerized Klinger Cavity Mode Conversion Test Set." 1974 Transactions on Microwave Theory and Techniques 22.10 (Oct. 1974 [T-MTT]): 873-878.

A mode conversion test set utilizing the klinger cavity technique has been developed for characterizing circular waveguide components in the millimeter waveguide region. The test set incorporates a precision linear displacement optical encoder and a specially designed controller which interfaces the test set to a Hewlett-Packard 2100 series computer. Control commands of a stored computer program are used by the operator for data acquisition and analysis. Experimental results show this system has high measurement accuracy and sensitivity while maintaining an uncomplicated measurement process.

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