

# Abstracts

## An Application of the Power Equation Concept and Automation Techniques to Precision Bolometer Unit Calibration (Dec. 1974 [T-MTT])

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*E.L. Komarek and P.V. Tryon. "An Application of the Power Equation Concept and Automation Techniques to Precision Bolometer Unit Calibration (Dec. 1974 [T-MTT])." 1974 Transactions on Microwave Theory and Techniques 22.12 (Dec. 1974, Part II [T-MTT] (1974 Symposium Issue)): 1260-1267.*

The power equation concept has been implemented into a multioctave precision bolometer unit calibration system employing automation techniques in conjunction with an automatic network analyzer (ANA) system. Using statistical methods the system is being evaluated as a calibration transfer system operating in the 2-12.4-GHz frequency range at 1-10 mW. preliminary results reported here show a single measurement standard deviation of 0.2-1 percent from 2-10 GHz. Upon a successful evaluation, the system will be qualified as an integral part of the national measurement system.

 [Return to main document.](#)