

# Abstracts

## Portable Microwave Test Packages for Beam-Waveguide Antenna Performance Evaluations

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*T.Y. Otoshi, S.R. Stewart and M.M. Franco. "Portable Microwave Test Packages for Beam-Waveguide Antenna Performance Evaluations." 1992 Transactions on Microwave Theory and Techniques 40.6 (Jun. 1992 [T-MTT] (Special Issue on Microwaves in Space)): 1286-1293.*

Portable microwave test packages used to evaluate a new 34-m-diameter beam-waveguide (BWG) antenna are described. The experimental methodology involved transporting test packages to different focal points of the BWG system and making noise temperature, antenna efficiency, and holography measurements. Comparisons of data measured at the different focal points enabled determinations of performance degradations caused by various mirrors in the BWG system. It is shown that, due to remarkable stabilities and accuracies of radiometric data obtained through the use of the microwave test packages, degradations caused by the BWG system were successfully determined.

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