

# Abstracts

## New Concepts in Traveling-Wave Amplifiers (Short Papers)

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*M. Friedgut. "New Concepts in Traveling-Wave Amplifiers (Short Papers)." 1986 Transactions on Microwave Theory and Techniques 34.4 (Apr. 1986 [T-MTT]): 446-451.*

Two new networks with the potential for good port VSWR over very broad bandwidths are proposed for use in both low-power balanced amplifiers, and high-power combining systems. These new structures which are called Low-Sidelobe and Squintless Traveling-Wave Amplifiers (LSTWA and SQTWA, respectively) have been derived from conventional Traveling-Wave Amplifiers (TWA) by utilizing Phased Array Antenna concepts and design techniques. Using Monte-Carlo simulations the relative performance of the three structures is compared. Finite loss and mismatch effects are also considered.

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