

# Abstracts

## Mode Coupling Between Surface Wave Transmission Lines

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*K.R. Cook and T.-M. Chu. "Mode Coupling Between Surface Wave Transmission Lines." 1969 Transactions on Microwave Theory and Techniques 17.5 (May 1969 [T-MTT]): 265-270.*

The eigenvalue equation describing the mode coupling between two Goubau surface wave lines is derived utilizing the point matching method for solutions of boundary value problems. Excellent agreement is obtained between theoretical and experimental results. A method for obtaining the hybrid wavenumbers of coupled surface wave lines is proposed for a finite set of TE and TM modes.

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