

Abstracts

The Accuracy of TLM Analysis of Finned Rectangular Waveguides

Y.-C. Shih and W.J.R. Hoefer. "The Accuracy of TLM Analysis of Finned Rectangular Waveguides." 1980 Transactions on Microwave Theory and Techniques 28.7 (Jul. 1980 [T-MTT]): 743-746.

This paper investigates three sources of error affecting the Transmission Line Matrix (TLM) analysis of finned rectangular waveguides. It is shown how truncation and velocity errors can be minimized, and a diagram for maximum coarseness error affecting the TLM analysis is presented. After error correction, cutoff frequencies obtained with the TLM method are in excellent agreement with results obtained with the Transverse Resonance Method.

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