Abstracts

Full-Wave Loss Analysis of Normal- and Superconducting Transmission Lines by Hybrid-Mode Boundary Integral Equation Method

W. Schroeder and I. Wolff. "Full-Wave Loss Analysis of Normal- and Superconducting Transmission Lines by Hybrid-Mode Boundary Integral Equation Method." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. I [MWSYM]): 341-344.

The Hybrid-Mode Boundary Integral Equation Method ia extended to full-wave analysis of arbitrary MMIC transmission limes that incorporate superconductors and/or normal (imperfect) conductors and lossy dielectrics. The method is demonstrated for thin film microstrip line of small width. Attenuation and effective permittivity results of several configurations with Au and YBCO strips separated by medium and high permittivity films are compared.

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