Abstracts

Slow-Wave Properties of Superconducting Microstrip Transmission Lines

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A complex resistive boundary condition is used to accurately model very thin superconducting films used in microstrip transmission lines. The imaginary part of the conductivity is a measure of the energy stored in the superconductor which contributes to the slow-wave propagation behavior of these transmission lines. Numerical solutions of superconducting microstrip have been obtained and the dependence of the complex propagation constant on the microstrip geometry and the superconducting thin film properties was investigated.

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