Abstracts

Numerical Evaluation of Lumped Inductance Influences of Superconducting Circuit Interconnections on Ultrafast Switching Signal Propagation Characteristics

J. Temmyo and H. Yoshikiyo. "Numerical Evaluation of Lumped Inductance Influences of Superconducting Circuit Interconnections on Ultrafast Switching Signal Propagation Characteristics." 1982 Transactions on Microwave Theory and Techniques 30.1 (Jan. 1982 [T-MTT]): 27-34.

The lumped inductance influence of superconducting circuit interconnection on ultrafast switching (~ 10 ps) signal propagation characteristics, such as propagation delay, degraded switching time, reflections, amplitude distortions, and crosstalk, were for the first time quantitatively evaluated by using the LNAP computer simulation, including the influences of matching capacitors and terminated resistor value.

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