Abstracts

Theoretical and Experimental Evaluation of Picosecond Pulse Propagation in Suspended Coplanar Waveguides

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The propagation and dispersion characteristics of picosecond pulses in a suspended coplanar waveguide (SCPW) are presented. An evaluation based on numerical analysis shows that the SCPW can result in an improvement of about 5 times in pulse transmission capability than conventional CPWs. Pulse propagation along the SCPW is studied by both simulations and experiments, both showing a substantial suppression in pulse distortion.

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