Abstracts

Nonlinear Slow-Wave Propagation on Periodic Schottky Coplanar Lines

Nonlinear wave propagation along periodic Schottky slow-wave structures with voltage dependent capacitance is analytically described by simple wave equations. As an examplary result of the theory, a special structure is proposed which can be used for traveling-wave second harmonic generation or parametric amplification with high efficiency. This is experimentally verified on a model line.

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