

Abstracts

Design of photonic band-gap substrates for surface waves suppression

R. Coccioli and T. Itoh. "Design of photonic band-gap substrates for surface waves suppression." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1259-1262.

Suppression of unwanted surface waves supported by a grounded dielectric slab can be achieved by periodically loading the substrates to create a forbidden frequency band for propagation. Approximate formulas for designing such loading are given and verified by means of a numerical full-wave analysis.

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