

Abstracts

Finite element method for rigorous design of microwave devices using photonic band gap structures

B. Lenoir, D. Baillargeat, S. Verdeyme and P. Guillon. "Finite element method for rigorous design of microwave devices using photonic band gap structures." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1061-1064.

In this paper, we present theoretical and experimental analyses of microwave devices using photonic band gap materials. These analyses are applied to design volumic or planar microwave filters. The experiments were conducted at 9-14 GHz to validate the concept which could be applied to millimeter frequency band (60 GHz) filters.

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