Abstracts

New efficient design of microwave inhomogeneous media filters

F. Bilotti, A. Toscano and L. Vegni. "New efficient design of microwave inhomogeneous media filters." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 1081-1084.

A technique developed for tapered transmission lines is presented for the design of optical filters. Optical filters with graded index profiles are analyzed by solutions (not numerical) of the nonlinear Riccati equation. Numerical results show that the method provides accurate solutions and computes the frequency response of the filters much faster than the usual numerical methods based both on the matrix method and on the Runge Kutta numerical method.

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