

Abstracts

Determination of Stationary Traveling Waves on Nonlinear Transmission Lines

J. Kunisch and I. Wolff. "Determination of Stationary Traveling Waves on Nonlinear Transmission Lines." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1037-1040.

This work describes how stationary waves traveling on nonlinear transmission lines may be determined within the framework of harmonic balance. A particular property of the given formulation is that sparse matrix packages optimized for the solution of harmonic balance Newton update equations are not disturbed. The method is demonstrated for an LC line which supports the propagation of solitons of a well-known, analytically given form.

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