

Abstracts

New Model of Coupled Transmission Lines (Short Papers)

A. Abramowicz. "New Model of Coupled Transmission Lines (Short Papers)." 1995 Transactions on Microwave Theory and Techniques 43.6 (Jun. 1995 [T-MTT]): 1389-1392.

The paper shows that an existing description of coupled transmission lines is inconsistent and proposes a new model based truly on the mutual coupling concept. In the existing formulation a series electric coupling and parallel magnetic coupling are combined. In the new formulation the parallel electric and magnetic couplings as well as series electric and magnetic couplings are used. Obtained model of coupled lines has physical background related to the odd and even type of propagation and agrees with the practical results.

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