

Abstracts

On the maximum number of finite transmission zeros of coupled resonator filters with a given topology

S. Amari. "On the maximum number of finite transmission zeros of coupled resonator filters with a given topology." 1999 *Microwave and Guided Wave Letters* 9.9 (Sep. 1999 [MGWL]): 354-356.

This letter presents a rigorous proof of the maximum number of finite transmission zeros which can be achieved by a network of coupled resonators with a fixed topology matrix. Once the topology matrix is fixed, the number of finite transmission zeros cannot exceed this number regardless of the choice of the frequency-independent coupling coefficients M_{ij} .

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