

Synthesis of impedance matching circuits using arbitrary nonuniform transmission lines

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An efficient approach for the synthesis of impedance matching circuits using arbitrary nonuniform transmission lines is proposed. The proposed technique is first summarized and its merits are discussed. Several practical examples are then considered and different matching circuits are synthesized covering wide impedance and frequency ranges. The results obtained by the proposed approach are compared to measured data as well as to those obtained by a commercial simulator using a full wave analysis.

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