

Equivalent Transformations for the Mixed Lumped Brune-Type Section and Uniform Transmission Line

R. Sato, Y.I Ohba, Y. Nemoto and K. Kobayashi. "Equivalent Transformations for the Mixed Lumped Brune-Type Section and Uniform Transmission Line." 1990 Transactions on Microwave Theory and Techniques 38.8 (Aug. 1990 [T-MTT]): 1114-1122.

As a new analytical method for nonuniform transmission lines, equivalent transformations which were recently derived for mixed lumped and distributed circuits are extended to circuits consisting of a cascade connection of a lumped Brune type section (Brune section and C section) and a uniform transmission line. By considering the limiting case of these equivalent transformations, we can derive equivalent transformations for circuits consisting of a cascade connection of a lumped resonance circuit and a uniform transmission line.

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