

# Abstracts

## **Simplified 8-Port S-Matrix of the General Reciprocal Lossless Matched 4-Way Divider with Output Port Isolation**

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*G.P. Riblet. "Simplified 8-Port S-Matrix of the General Reciprocal Lossless Matched 4-Way Divider with Output Port Isolation." 1995 Microwave and Guided Wave Letters 5.11 (Nov. 1995 [MGWL]): 365-367.*

Matched reciprocal lossless 8-port circuits that provide equal power division between two sets of 4 input and 4 output ports have been found to be useful in various microwave applications. In this paper it is shown that if the 4 input ports as well as the 4 output ports are mutually isolated from each other, then the S-matrix can be reduced to a very simple form depending on only one angular parameter theta.

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