

Abstracts

The Equad: A Flat Amplitude, Octave Bandwidth Planar Quadrature Network

R.V. Snyder. "The Equad: A Flat Amplitude, Octave Bandwidth Planar Quadrature Network." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 413-415.

This paper will describe a hybrid structure with quadrature properties. The technique to be described adds bandpass - bandstop networks to the outputs of in-phase N-way power dividers resulting in circuits possessing hybrid properties with output port phases in quadrature. Output amplitude characteristics may be made equal or may differ by offset values, depending on the power split properties of the power divider chosen. Applications to amplifier arrays and antenna feeds are discussed.

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