Abstracts

Crossed dipoles fed with a turnstile network

R.K. Zimmerman, Jr.. "Crossed dipoles fed with a turnstile network." 1998 Transactions on Microwave Theory and Techniques 46.12 (Dec. 1998, Part I [T-MTT]): 2151-2156.

A "turnstile network" is introduced which may be conveniently used for circular polarization synthesis. The network, outfitted with proper phasing stubs, forms a balanced quadrature hybrid; for an antenna with less than a perfect reflection coefficient, the reflected power will appear at an isolated port, which may be terminated, resulting in good polarization properties coupled with good input voltage standing-wave ratio. A crossed-dipole array is used as a test-bed to demonstrate the turnstile network.

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