

Abstracts

Meander-Line Polarizer for Arbitrary Rotation of Linear Polarization

*T.-K. Wu. "Meander-Line Polarizer for Arbitrary Rotation of Linear Polarization." 1994
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A versatile meander-line polarizer is described and demonstrated for arbitrary rotation of linear polarization. This polarizer consists of eight-layer meander-line grids with rigid foam spacers between any two layers. It is shown that the field polarization rotation angle through this meander-line polarizer is twice the angle between the incident polarization and the polarizer grating lines. Hence, any polarization rotation can be accomplished by a simple mechanical rotation of this low-mass polarizer instead of rotating or modifying the much heavier antenna and its complex feed components.

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