

Abstracts

Coupled oscillator array generating circular polarization [active antenna]

L. Dussopt and J.-M. Laheurte. "Coupled oscillator array generating circular polarization [active antenna]." 1999 Microwave and Guided Wave Letters 9.4 (Apr. 1999 [MGWL]): 160-162.

In this work, a four-element oscillator array using linearly polarized elements is designed to generate circular polarization. The oscillators are coupled in a loop arrangement with unidirectional coupling. The analysis of this new arrangement is developed and confirmed by circular polarization radiation pattern measurements showing a wide axial ratio beamwidth both in principal and diagonal planes.

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