Abstracts

Polarization-Sensitive Imaging Arrays

P.P. Tong, D.B. Rutledge, D.P. Neikirk, P.E. Young, W.A. Peebles and N.C. Luhmann, Jr.. "Polarization-Sensitive Imaging Arrays." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 542-544.

Two different monolithic imaging arrays have been developed that image polarization as well as intensity at near-millimeter wavelengths. One array is a row of linearly polarized bow-tie antennas that lean alternately left and right. This array has measured the polarization with a precision of 7 arc-minutes, and has demonstrated diffraction-limited resolution of a 20° step change in polarization. The other array is a row of circularly polarized equiangular spiral antennas, alternately spiraling clockwise and counterclockwise, that respond to left-handed and right-handed circular polarization.

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