Abstracts

Novel Active FET Circular Patch Antenna Arrays for Quasi-Optical Power Combining

X.-D. Wu and K. Chang. "Novel Active FET Circular Patch Antenna Arrays for Quasi-Optical Power Combining." 1994 Transactions on Microwave Theory and Techniques 42.5 (May 1994 [T-MTT]): 766-771.

This paper discusses two-dimensional planar arrays of weakly coupled active circular patch antennas suitable for quasi-optical power combiners. A novel radiating element that has low cross-polarization is described. A two-dimensional array analysis was developed to address radiation pattern and phase problems. Equivalent isotropic radiated power levels of 1.5 W for a two by two FET array and 3.8 W for a two by four FET array have been obtained at X-band.

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