

Abstracts

A polarization flexible phased array antenna for a mobile communication SDMA field trial

C. Passmann, G. Villino and T. Wixforth. "A polarization flexible phased array antenna for a mobile communication SDMA field trial." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 595-598.

An 8/spl times/8 element array antenna for 1.71-1.785 GHz frequency range suited for an adaptive antenna system has been built. The elements are broadband microstrip patches, which are optimized for large angular coverage. The antenna can be digitally switched between 16 different polarizations to enhance polarization-diversity-gain. Calibration ports allow precise phase and amplitude adjustment of element coefficients.

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