Abstracts

Analysis of Dual-Frequency Stacked Patch Antennas Using Subsectional Bases

S. Couture, J.C. Beal and Y.M.M. Antar. "Analysis of Dual-Frequency Stacked Patch Antennas Using Subsectional Bases." 1992 Microwave and Guided Wave Letters 2.5 (May 1992 [MGWL]): 185-187.

The analysis of stacked, microstrip patches for dual-frequency antenna applications is performed by the method of moments applied in the spatial domain and using simple, subsectional, basis functions. The moment matrix is filled, and solved, quickly by exploiting symmetries and performing all computations in four-byte, single precision. The use of subsectional bases enables applications to microstrip structures of arbitrary shapes. Resonant frequencies and reflection coefficients of two stacked patches are well-predicted by linear systems of surprisingly low order.

❑ Return to main document.