

Abstracts

A Half-Split Cylindrical Dielectric Resonator Antenna Using Slot-Coupling

R.K. Mongia, A. Ittipiboon, Y.M.M. Antar, P. Bhartia and M. Cuhaci. "A Half-Split Cylindrical Dielectric Resonator Antenna Using Slot-Coupling." 1993 Microwave and Guided Wave Letters 3.2 (Feb. 1993 [MGWL]): 38-39.

A half-split cylindrical dielectric resonator placed on a metallic plane and excited in its "magnetic dipole" mode is a potentially useful antenna element. The use of a microstrip line-slot feed scheme for exciting this antenna is reported. Experimental results show that the antenna displays the anticipated radiation pattern and it has a high operating frequency bandwidth (about 10%). Further, the overall antenna configuration can be easily integrated with MIC's.

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