Abstracts

Model-based characterization of CPS-fed printed dipole for innovative design of uniplanar integrated antenna

Lei Zhu and Ke Wu. "Model-based characterization of CPS-fed printed dipole for innovative design of uniplanar integrated antenna." 1999 Microwave and Guided Wave Letters 9.9 (Sep. 1999 [MGWL]): 342-344.

A printed dipole radiator fed by coplanar stripline (CPS) is modeled by using a full-wave method of moments (MoM), and its input impedance is accurately extracted (de-embedded) by applying a so-called "short-open calibration" (SOC) scheme. An offset CPS-fed dipole radiator is studied, and its pertinent results show a significant reduction of its input impedance with enlarging the offset. Two new uniplanar integrated antennas in the form of single and twin dipole radiators are designed jointly with an innovative hybrid FGCPW and CPS feeder, and predicted characteristics are well confirmed by our measurements.

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