Abstract:

In this work we present a novel model of the dielectric cubic corner, that is suitable for inclusion in a standard E.M. simulator. The model starts from a consideration of the equivalent current densities on the cube facets. It proceeds by employing a classical multipole expansion of the Green's function at the corner and introduces the novel principle of simultaneous transverse resonance (S.T.R.) to determine the order of singularity. The theory is validated by the use of a standard FEM-based simulator, yielding information about the near field and the radiation pattern of the corner.
Occurences:
  · Einrichtungen > Fakultäten > Fakultät für Elektrotechnik und Informationstechnik > Lehrstühle und Professuren > Hochfrequenztechnik (Prof. Eibert) > 2005

entries: