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Experimental studies of a shorted triangular microstrip antenna embedded with dual V-shaped slots

Sim, Chow-Yen-Desmond; Row, Jeen-Sheen; Liou, Y. Y.

Abstract

The design of an equilateral triangular microstrip antenna embedded with dual V-shaped slots and two shorting walls is proposed and experimentally studied. By properly selecting suitable dimensions for this microstrip antenna, dual frequency operated at TM11 and TM21 modes, with frequency ratio ranging from 1.28 to 1.5 can be achieved with a single probe feed. The experimental procedures on achieving such operation with a maximum gain of around 11 dBi are presented and discussed.