Analysis for Sectoral Microstrip Antennas for Varying Angle

Abstract
The variation of circular microstrip antenna, a Sectoral microstrip antenna is discussed. The detail analysis to study the effects of antenna parameters like, feed point location and the substrate thickness for Sectoral angle increasing from 2700 to 3400 on the patch first four resonant modes is presented. The variation in angle tunes the spacing between three patch resonant modes which yields optimum simulated and measured bandwidth of more than 700 MHz (>60%) in 3400 Sectoral patch. The Sectoral antenna variation yields broadside radiation pattern with antenna gain of more than 4 dBi over most of the bandwidth.

References

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2013. (DOI - 10.1109/ICACC.2013.87)

Index Terms

Computer Science  Wireless

Keywords
Circular Microstrip Antenna  Sectoral Microstrip Antenna  Broadband Microstrip Antenna  Proximity Feed
Higher Order Mode.