Ring Shaped Compact Microstrip Reflectarray Antenna

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Abstract

Regularly shaped compact microstrip antennas have a small size but their gain is insufficient for most applications. Therefore, a ring-shaped compact microstrip reflectarray with microstrip antenna feed has been proposed. Different configurations, namely, $1 \times 3$, $3 \times 1$, plus-shaped and $3 \times 3$ have been analyzed. The $3 \times 3$ configuration yields an optimum gain of 10.8 dBi and a narrow beamwidth of 22.7°.

References


Index Terms

Computer Science  Wireless
Keywords
Compact Microstrip Antennas  Ring-shaped Compact Microstrip Antennas  Microstrip Reflectarray

Microstrip Antenna Feed.