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Abstract
In this paper, the series of designs and studies for cross monopole antenna are presented. We investigate the characteristics of pattern and gain on the framework of blades shape. Then we investigate various slits and slots loaded on cross semi-elliptic monopole antenna to compare with the frequency band without 5.25 GHz ~ 5.85 GHz. The band-rejected and dual band-reject characteristics are also investigated in this thesis. Using fork-shape, L-shape and U- shape load on cross semi-elliptic monopole antenna respectively, the various antenna deign of single band-reject can be achieved . In addition .The cross semi-elliptic monopole antenna with H-shape slot for dual band-reject property is also shown in this thesis.
The performance we have achieved in these antenna designs not only satisfy the wireless communication application of the system, but also show good antenna pattern and gain.
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