Abstract

The objective of this paper is to design an inset fed dual band rectangular microstrip patch antenna symmetrical ground plane. In this paper we simulated our design by using the electromagnetic solver, simulator (IE3D), was used to numerically investigate and optimize the proposed antenna configuration. Besides the structure external dimensions, the influence of the various antenna parameters on the resonant behavior have been observed. It has been found that the symmetrical position of patch over ground plane have clear impact on overall antenna performance. Many antenna structures have been modeled to demonstrate the effects of these parameters on the resulting dual band response. we design antenna for (1. 85-2. 05GHz) and upper band (2. 35-2. 44GHz).

References

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Index Terms

Computer Science

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Keywords

Microstrip antenna; IE3D SIMULATOR; Dielectric; Patch width; Patch Length; Losses; strip width; strip length.