

## Microstrip antenna radiation pattern analysis considering the ground plane effect

Mohammad Reza Rizal, author

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=91248&lokasi=lokal>

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### Abstrak

This paper describes the application of the geometrical theory of diffraction (GTD) method to predict the ground plane effect on the rectangular antenna radiation pattern. In the analysis we used a Matlab Software version 4.2c1 to develop a rectangular microstrip antenna software. The results verify that the antenna radiation pattern is affected significantly by the ground plane.