

# Abstracts

## Design of a Single Layer Broadband Microwave Absorber Using Cobalt-Substituted Barium Hexagonal Ferrite

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A microwave absorber is generally used to reduce the reflection from the large scale structures such as aircraft, ships, tanks etc. In order to design a good absorbing system it is very important to not only determine the characteristics of the parameters of the absorbing medium, but also to estimate & minimize the effects of the angle of incidence and polarization of the incident wave. In this communication we present a theoretical and practical design of a single layer microwave absorber which exhibits broad band characteristics for both normal and oblique incidence. A single layer absorber was designed, fabricated and tested at normal as well as at oblique incidence. It is found that the theoretical & practical results agree very closely.

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