

## **An experimental thickness of microwave absorber effect absorption in Ku-band frequency**

### **Abstract**

This paper presents the different thickness of rice husk microwave absorber effects microwave absorption performance. The sample microwave absorber was fabricated using rice husk material. The complex permittivity will be measured using an Agilent dielectric probe. The reflection loss and absorption performance of rice husk microwave absorbers will be investigated. The rectangular waveguide simulation technique had been used. This rice husk microwave absorber was simulated using the CST Microwave Studio simulation software. The ability of absorption microwave frequency between different thicknesses of the rice husk microwave absorber was compared.

**Keywords** — Absorption, Ku-band, reflection loss, waveguide