

4. Conclusions

As conclusion, the coconut fiber coir and charcoal composite samples with different weight percentage of charcoal were fabricated. The electromagnetic wave absorption properties including complex permittivity and permeability, conductivity, penetration depth, attenuation constant, phase constant, impedance matching characteristics and the reflection loss of the samples were studied and analyzed. The performance of the samples varies when the frequency increases. The result from the measurement shows that coconut fiber coir has promising properties to be developed into a suitable material for microwave absorber.

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