

# DESIGN, FABRICATION AND CHARACTERIZATION OF A PERFECT ABSORBER USING SIMPLE CUT-WIRE METAMATERIALS

Thanh Viet Do 1 , Son Tung Bui 1 , Van Quynh Le 1 , Thi Hien Nguyen, Trong Tuan Nguyen, Thanh  
Tung Nguyen, YoungPak Lee and Dinh Lam Vu

## TÓM TẮT:

Using an irreducible design we experimentally and numerically study a perfect metamaterial absorber, providing excellent absorption at microwave frequencies. The impact of geometric parameters on the absorption is also investigated. The experimental and the simulated results are in good agreement. Finally, we propose a polarization-insensitive absorber for the improvement. Using an irreducible design we experimentally and numerically study a perfect metamaterialabsorber, providing excellent absorption at microwave frequencies. The impact of geometricparameters on the absorption is also investigated. The experimental and the simulated resultsare in good agreement. Finally, we propose a polarization-insensitive absorber for theimprovement.