## Guiding Behavior of a Periodic Subwavelength Metallic Domino Array 高曜煌,侯大鈞,楊宗哲,吳家和 Communication Engineering Engineering yhkao@chu.edu.tw

## Abstract

Based on the mechanism of spoof surface plasmon polaritions (spoof SPPs), we present a kind of microwave band pass <sup>-</sup>lter in both theory and experiment, which is realized by periodic subwavelength metallic Domino array. The transmission bandwidth of spoof SPPs is controllable by designing the geometric parameters of the periodic structure. Simulation and experimental results of the spoof SPPs agree well with each other and verify the feasibility in band pass <sup>-</sup>lter application.

Keyword: Domino Array, Plasmo, Polarition, periodic structure