Guiding Behavior of a Periodic Subwavelength Metallic Domino Array 高曜煌,侯大鈞,楊宗哲,吳家和

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Abstract

Based on the mechanism of spoof surface plasmon polaritions (spoof SPPs), we

present a kind of microwave band pass Titer 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 Titer application.

Keyword: surface plasmon