

Seminar on

A Unidirectional Antenna Element with Very Wide Bandwidth

by

Mr. Lei Ge

City University of Hong Kong, Hong Kong

Abstract

A wideband magneto-electric dipole antenna is designed. The antenna is composed of a horizontal bowtie electric dipole and a vertically-oriented folded shorted patch antenna. Simulated and measured results are presented which reveal that the antenna can achieve an impedance bandwidth of 95.2% ($SWR \leq 2$), stable unidirectional radiation pattern with low cross polarization, low back radiation, nearly identical E- and H-plane patterns and a stable gain over the operating frequencies.

Biography

Lei Ge received the B.S. degree in electronic engineering from Nanjing University of Science and Technology, Nanjing, China, in 2009. Currently, he is working toward the Ph.D. degree in electronic engineering at City University of Hong Kong. His research interest focuses on wideband antenna and the design of patch and planar antenna.

Date : 30 Jul., 2012 (Monday)
Time : 04:00pm – 04:30pm
Venue : G6302, Academic 1,
City University of Hong Kong

***** ALL ARE WELCOME *****

Enquiries: Prof Kwai Man Luk, Department of Electronic Engineering
Tel. : 3442 7352 Fax : 34420353 e-mail: ekmluk@cityu.edu.hk