







Seminar on

Dual-band Bandpass Filter Based on Stub-loaded Complementary CMRC

by

Mr. Wei Qin

City University of Hong Kong, Hong Kong, China

Abstract

A dual-band bandpass filter (BPF) is presented in this paper by applying the stub-loaded resonator technique to the recently-proposed quasi-lumped BPF, namely complementary CMRC (CCMRC). The CCMRC is a compact single-band BPF and consists of four resonators. Two stubs are attached at the center of the first and the fourth resonators respectively to obtain an additional passband, resulting in a dual-band filtering feature. The implemented dual-band BPF inherits advantages from the CCMRC, such as compact size, good passband performance and high selectivity skirt.

Biography

Wei Qin received the B.S. and M.S. degree in electronic engineering from Southeast University, Nanjing, China, in 2007 and 2010, respectively. He is currently working toward the PhD degree in electronic engineering at City University of Hong Kong, Hong Kong. His research interest focuses on design of compact microwave devices and circuits.

Date: 24 Apr., 2013 (Wednesday)

Time : 04:00pm – 04:20pm

Venue : G6315, 6/F, Green Zone, Academic 1,

City University of Hong Kong

*** ALL ARE WELCOME ***

Enquiries: Prof Quan Xue, Department of Electronic Engineering

Tel.: 3442 4680 Fax: 34420353 e-mail: eeqxue@cityu.edu.hk