

Seminar On

Applications of Multiple-Mode Resonator (MMR) to Cavity Filters and Diplexers

by

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Abstract

The filters and diplexers in base station of mobile communication system require high power and compact size. Cavity circuits are a good technology to meet the requirements. Thus, cavity filters and diplexers draw many attentions from both the academic and industry areas. In this talk, several MMR cavities filters and diplexers will be introduced. Traditionally, single mode resonator is usually used to design passive components such as filters. However, single-mode resonator usually suffers from large circuit size and narrow bandwidth. MMR is a very effective technology to miniaturize the circuit size and widen the bandwidth. Especially, due to the development of 4G and 5G wireless communication, wideband (fractional bandwidth >30%) passive components with compact size has a high potential demand.

Biography

Sai-Wai Wong 王世偉 (S'06-M'09-SM'14) received the B.S degree in electronic engineering from the Hong Kong University of Science and Technology, Hong Kong, in 2003, and the M.Sc. and Ph.D. degrees in communication engineering from Nanyang Technological University, Singapore, in 2006 and 2009, respectively. From July 2003 to July 2005, he was an Electronic Engineer to lead the electronic engineering department in mainland of China with two Hong Kong manufacturing companies.

From May 2009 to October 2010, he was a Research Fellow with the Institute for Infocomm Research, Singapore. From 2010 to 2014, he was an Associate Professor, and since 2014, a Professor in advance with the School of Electronic and Information Engineering, South China University of Technology, Guangzhou, China. His research interested include microwave/mmW/Terahertz circuit and antenna design.

Dr. Wong has authored and co-authored more than 80 international papers. He is holding 10 licensed Chinese invention patents, more than 20 Chinese invention patents are pending. He is a reviewer for several top international journals in the field of microwave circuits. He was the recipient of the New Century Excellent Talents in University awarded by Ministry of Education of China in 2013.

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

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