

Seminar On

Slot-loaded Electromagnetic Transparency Antennas for Base Stations

Professor Qing-Xin Chu

South China University of Technology, Guangzhou, China

Date : 30 August 2023 (Wednesday)

Time : 4:00 pm – 5:00 pm

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Venue

G4702, Yeung Kin Man Academic Building, City University of Hong Kong

Abstract

The decoupling technology of multi-frequency co-aperture base-station antennas is the key point, difficulty and hot spot of base station antenna design. As early as in 4G, the industry has carried out the research and development of multi-frequency co-aperture antenna products with a relatively small number of arrays. In 5G, as the number of arrays in the same frequency band or different frequency band increases sharply, the decoupling between arrays or elements has become increasingly serious and become the bottleneck problem of restricting the design and development of base station antennas. Therefore, the decoupling technology has also attracted extensive attention and in-depth research in the academic circles. In recent years, various new decoupling methods emerge in endlessly, and the research boom is in the rise. This talk mainly introduces electromagnetic transparency antennas loaded slots, which is one of the research achievements of Professor Chu Qing-Xin team of South China University of Technology in 4G / 5G base station antenna decoupling technology.

Biography



Prof. Qing-Xin Chu is the professor with the School of Electronic and Information Engineering, the founder of IEEE Guangzhou AP/MTT Chapter, the vice-chair of Chinese Institute of Electronic (CIE) Antenna Society, the vice-chair of CIE Propagation Society, IEEE Fellow and CIE Fellow. He has published two books, more than 460 papers in journals and more than 450 papers in conferences, in which several papers were selected in ESI high cited papers. He has been the highly cited scholar from Elsevier since 2014. He has authorized more than 120 invention patents of China. He was the recipient of the Science Awards by CIE in 2018 and 2016, the Science Award by Guangdong Province of China in 2013, the Science Awards by the Education Ministry of China in 2008 and 2002. His current research interests include antennas and microwave devices in wireless communication.

*** ALL ARE WELCOME ***

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