

Seminar On

SIW Antenna and SIW-SSPP Hybrid Structure

By

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Date : 04 November 2019 (Monday)

Time : 11:00 am – 12:00 noon

Venue : Room 15-202, 15/F, State Key Laboratory of Terahertz and Millimeter Waves,
Lau Ming Wai Academic Building, City University of Hong Kong

Abstract

Substrate integrated waveguide (SIW) is an excellent planar guided wave structure, which has the similar transmission characteristic of metallic waveguide as well as can be designed on the printed circuit board (PCB). With the advantages of low profile, low loss, and low interference, SIW has been widely used in the design of microwave and millimeter wave devices. This seminar is about SIW antennas and novel hybrid SIW structures. It includes: (1) SIW coupled-feed antenna arrays to realize compact size and broadband; (2) the idea of integrating spoof surface plasmon polariton (SSPP) with SIW for developing novel hybrid SIW-SSPP transmission lines and filters; (3) the research on the scanning rate of SIW leaky-wave antenna (LWA) for the design of wideband fixed-beam LWAs and narrowband scanning beam LWAs.

Biography

GUAN Dongfang was born in Henan Province, China, in 1988. He received the B.S. and Ph.D. degrees from the College of Communications Engineering, PLA University of Science and Technology, Nanjing, China, in 2011 and 2016. He is now a lecturer in the College of Electronic Science and Technology, National University of Defense Technology, Changsha, China. His current research interests include microstrip antennas, array antenna, SIW technology, spoof surface plasmons and metamaterials.

*** ALL ARE WELCOME ***

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