



APMC 2025

2025 ASIA-PACIFIC MICROWAVE CONFERENCE

DEC 2 - 5, 2025 | ICC JEJU, Jeju Island, Korea

Session Title: [FD4] Electromagnetic Scattering

Session Date: December 5 (Fri.), 2025

Session Time: 15:20-17:00

Session Room: Room D (Samda B)

[FD4-1]

15:20-15:40

Electro-Magnetic Wave Scattering by a Dielectric Wedge

Jung-Woong Ra (KAIST, Korea (South))

[FD4-2]

15:40-16:00

Near-Field Setup to Investigate Direction-Dependent Scattering of a Sub-Resonant Dielectric Sphere

Fatemeh Habibi (University of Stuttgart, Germany); Jan Hesselbarth (University of Stuttgart & IHF — Institute of Radio Frequency Technology, Germany)

[FD4-3]

16:00-16:20

Highly Cost-Effective Reconfigurable Metasurface Using SMD Slide Switches for Zero-Power Consumption

Kyounghwan Kim and Sungjoon Lim (Chung-Ang University, Korea (South))

[FD4-4]

16:20-16:40

Compact Ultra-Wideband Antenna for SFCW GPR-Based Concrete Scanning

Gyeongyong Jeong Jeong and Seung-Jun Park (University of Seoul, Korea (South)); Changbin Joh and Joo-Hyung Lee (Korea Institute of Civil Engineering and Building Technology, Korea (South)); Moon-Que Lee (University of Seoul, Korea (South))

[FD4-5]

16:40-17:00

Dual-Level GPU Acceleration for Time-Domain Physical Optics (TDPO): Facet-Observer Hybrid Parallelism in Electromagnetic Scattering Analysis

Jiaxuan Wang and Qiang Ren (Beihang University, China)