

Recent Advances in Electrostatic Discharge Testing and Electromagnetic Pulse Characteristics

ORGANIZERS & SPEAKERS:

PhD. Eng. Adrian Matoi, and Renato Henz, EMC PARTNER AG, Switzerland
Han Jingyu, The Testing Center for Quality of Security and Police Electronic Product Under the Ministry Public Security, Beijing, China

TALKS:

Theoretical and practical advances in Electrostatic Discharge testing according to IEC 61000-4-2

PhD. Eng. Adrian Matoi, and Renato Henz, EMC PARTNER AG, Switzerland

Abstract: As the global EMC community is preparing itself to greet the third edition of IEC 61000-4-2, that will probably deliver updates related to reproducibility of calibration and testing, this workshop aims to analyze theoretical and practical assumptions behind the expected changes. Additionally, the study aims to outline practical implications for the owners of test equipment vis-à-vis the new requirements, in terms of compliance but also quality of calibration and test processes.

The Research on Frequency-Domain Characteristics of Electromagnetic Pulse

Han Jingyu, The Testing Center for Quality of Security and Police Electronic Product Under the Ministry Public Security, Beijing, China

Abstract: Frequency-Domain characteristics of various typical electromagnetic pulses are calculated by Fourier transforms. We can see the frequency range of different electromagnetic pulse, the electromagnetic energy distribution in the different frequency range, the energy flux density of electromagnetic pulse in the different frequency range. It is possible to propose some Electromagnetic Pulse wave to improve the Frequency-Domain characteristics of electromagnetic pulse to be use in electromagnetic test.

BIOS OF ORGANIZERS & SPEAKERS

Adrian Mațoi, currently engaged in market development and strategic sales at EMC PARTNER AG in Laufen Switzerland, holds a PhD in EMC. He has gained extensive experience working with test equipment manufacturers in the European EMC market and spent time gaining practical experience in an EMC test laboratory. Publications to his name, on specific EMC topics ranging from evaluation of disturbances in automotive communication systems to research on EMF distribution in the environment, are complemented in the past few years by a series of technical webinars, seminars and trainings on indirect lightning test.

EMC PARTNER AG is a worldwide leading supplier of impulse test generators with over 25 years' experience in the EMC field. Key domains are indirect lightning tests on aircraft components, CE mark / ANSI or UL tests, insulation tests, different impulse tests on electric/electronic components and related.



Jingyu Han was born in Inner Mongolia, China, on December 29, 1982. He received the master degree in Materials Science and Engineering from Beijing University of Technology, in 2011. Now he had served as Junior engineer at the Testing Center for Quality of Security and Police Electronic Product under the Ministry Public Security in First Research Institute of the Ministry of Public Security. He is primarily engaged in EMC testing of security product and electromagnetic security research.