

EMC Professional Talk

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New Developments in Antenna Measuring Techniques

Antennas are wave mode changers, that are classically described by a set of antenna parameters such as input impedance, gain, directivity, antenna factor and radiation diagram. Due to progressing complexity and integration of transmission systems, the exact knowledge of these parameters is getting more and more important. For the measurement of quantities conforming to standards, different measurement setups in absorber chambers and on open-area test sites exist. With progressing computational capabilities, computationally intensive methods based on near-field-to-far-field transformation gain importance. Flying measurement platforms based on autarkic multi-copters are used for the characterization of large stationary antenna systems. The talk shows some new developments.

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About the speaker:

Thomas Kleine-Ostmann was born in Lemgo, Germany, in 1975. He received the M.Sc. degree in Electrical Engineering from the Virginia Polytechnic Institute and State University, Blacksburg, VA, USA, in 1999, the Dipl.-Ing. degree in Radio Frequency Engineering from Technische Universität (TU) Braunschweig, Germany, in 2001, and the Dr.-Ing. degree from TU Braunschweig, Germany, in 2005. Since 2006, he has been with the Electromagnetic Fields Group, PTB, Braunschweig, working as a permanent scientist. Currently, he is working on realization and transfer of the electromagnetic field strength, electromagnetic compatibility, antenna measuring techniques and THz metrology. In 2007, he became head of the Electromagnetic Fields Group, in 2012, of the Electromagnetic Fields and Antenna Measuring Techniques Group, and in 2020, of the Department High Frequency and Electromagnetic Fields.

Dr. Kleine-Ostmann is a lecturer at TU Braunschweig since 2007. After his habilitation in the field of radio frequency engineering he was appointed Privatdozent becoming an external faculty member in 2014. He is giving lectures on Microwave and Wireless Metrology. Dr. Kleine-Ostmann is a member of the VDE and the URSI. He received the Kaiser-Friedrich Research Award in 2003 for his work on a continuous-wave THz imaging system.

Organisation:

Dr.-Ing. Miroslav Kotzev, Ericsson Antenna Technology Germany
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