

EMC Professional Talk

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Electromagnetic field theory is probably not the most favorite topic for many engineers, but it is crucial for understanding EMC. Many times, teaching of electromagnetic fields includes a lot of heavy mathematics obscuring the actual physics of electromagnetic fields. In this presentation, I use 3D electromagnetic field simulations to visualize the behavior of fields and how it results in effects that are important for EMC. After a short introduction to the calculation methods, I will discuss concepts that we use daily like voltage, current, power transfer and shielding in terms of electromagnetic fields. Some of the content you will probably have heard of, some of it might be surprising.

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Zoom: <https://ovgu.zoom.us/j/65212681357?pwd=T085Q3k5MUtUL01yaDhXNXkybkIzUT09>
Meeting-ID: 652 1268 1357
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The slides will be provided on demand after the meeting:

<http://sites.ieee.org/germany-emc/contact-us/>

About the speaker:

Dr. Andreas Barchanski - Andreas is a senior solution consultant for electromagnetic simulation at Dassault Systemes in Darmstadt, Germany. After receiving his PhD in numerical electromagnetics from the Darmstadt University of Technology in 2007 he has joined CST that later became a part of Dassault Systems. His main interest lies in the simulation of electromagnetic compatibility of electronic systems, ranging from high-speed digital to power electronics.

Organisation:

Dr.-Ing. Miroslav Kotzev, Ericsson Antenna Technology Germany
IEEE German EMC Chapter - Coordinator Technical Teleconferences