ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ V PRAZE

Fakulta elektrotechnická
katedra elektrotechnologie

a

si Vás dovolují pozvat na přednášku

Understanding EMC in Power Electronics

Dr. Supratim Basu
Bose Research, India

místnost T2:C4-80
úterý 18. listopadu 2008
13:00 – 16:00

Understanding EMI and EMC

- What is EMI and EMC…Causes and Concerns, Paths of EMI flow and coupling modes.
- Understanding Emission and Immunity, Emission and Immunity Limits, Coupling ports.
- Generation of Conducted and Radiated Emission in Power Electronics Circuits.
- Common Mode and Differential Emission.
- Measuring Emission.

Attenuating EMI and mitigating problems related PV & Wind generators

- Paths for Conducted and Radiated Emission, Attenuating Emissions.
- Filtering Conducted and Radiated Emission and limitations of practical Filter Circuits.
- PCB design techniques.
- Safety Capacitors and Leakage currents.
- Attenuating conducted and Radiated Emission in Power Electronics

Supratim Basu received the B.E. degree in electrical and electronics engineering from Birla Institute of Technology, Mesra, India, in 1988 and the M.Tech. degree from Indian Institute of Science, Bangalore, India, in 1992. He is received the Ph.D. degree from Chalmers University of Technology, Göteborg, Sweden in 2006. He has published many technical papers in the area of power electronics. His current research interests are power electronics applications to Renewable Energy and EMI/EMC. He has lectured at HUT, Finland and NTNU, Norway on EMI/EMC and Mosfet drive circuits. He has also presented many lectures on Power Electronics design for many industries in Europe and is also been actively involved in developing lectures for large corporations for their internal training programs and training seminars. He chaired a Workshop and Panel discussion on EMI at the European Conference on Power Electronics and Applications, EPE 2007, Aalborg, Denmark and presented a Tutorial on EMC was presented at IEEE-PESC, Rhodes, Greece. He has been associated with power electronics R&D since 1992 and has independently developed many converters and inverters. Presently he is managing director at Bose Research Pvt. Ltd, Bangalore, India and heads a team of ten power electronics engineers. He also works as an independent power electronics consultant for many companies around the world.