

THE LOG PERIODIC

www.scvemc.org Santa Clara Valley Chapter of IEEE Electromagnetic Compatibility Society

IEEE/EMC Society Meeting: Tuesday, May 11, 2010

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Time: Social 5:30 p.m. Presentation 6:30 p.m.

Place: Applied Materials Bowers Cafeteria
3090 Bowers Ave., Santa Clara, CA 95051-0804

Subject: How to Apply Shielded Cables to Solve More Problems than You Create

Speaker: Dr. Tom Jerse, Associate Professor
Citadel Department of Electrical and Computer Engineering

Abstract:

Shielded cables are widely used to enhance signal integrity and solve interference problems, but there are several mechanisms that if not understood in a system design can inadvertently cause interconnect cables to become the dominant player in crosstalk or radiated emissions. This talk explains the ways in which cables can both mitigate and exacerbate electromagnetic interference, and presents basic design principles and troubleshooting techniques for achieving the most electromagnetically compatible designs possible.

Speaker Bio:



Tom Jerse has over 30 years experience with Hewlett-Packard and Boeing in solving EMI problems both at the circuit and systems level, and has earned a PhD in EMC from the University of Kentucky. He presently holds the dual positions of Professor of Electrical Engineering at The Citadel and Associate Technical Fellow of the Boeing Company. He served two years as a distinguished lecturer of the EMC Society, and has developed and taught original EMC courses at the professional and university level since 1981.

Food & Refreshments:

Light Dinner and beverages will be served for a fee. Coffee, tea, and snacks are served free of charge.

$$\nabla \times \vec{E} = - \frac{\partial \vec{B}}{\partial t}$$

$$\nabla \times \vec{H} = \frac{\partial \vec{D}}{\partial t} + \vec{J}$$

$$\nabla \cdot \vec{D} = \rho$$

$$\nabla \cdot \vec{B} = 0$$



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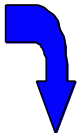
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