bis 2006

M. Valek, M. Leone
Estimation of Radiated Fields of Small Horizontal Submodules based on a Lumped-Element Model, Radioengineering, vol.15, no.4, December 2006, S. 9-14.

M. Leone
Radiated Susceptibility on the Printed-Circuit-Board Level- Simulation and Measurement
IEEE Trans. Electromag. Compatibility, vol. EMC-47, no.3, August 2005, S.471-478.

M. Leone, V. Navratil
On the Electromagnetic Radiation of Printed-Circuit-Board Interconnections
IEEE Trans. Electromag. Compatibility, vol. EMC-47, no.2, May 2005, S.219-226.

C. Wang, M. Leone, J.L. Drewniak, A. Orlandi
Coupling Between Differential Signals and the DC Power-Bus in Multilayer PCBs
IEEE Trans. on Advanced Packaging, vol.28, no.2, May 2005, S.337-345.

M. Leone, V. Navratil
On the External Inductive Coupling of Differential Signalling on Printed Circuit Boards
IEEE Trans. Electromag. Compatibility, vol. EMC-46, no.1, Feb. 2004, S.54-61.

M. Leone, G. Mönich
Coupling of Apertures in Enclosures to External Cabling Structures
IEEE Trans. Electromag. Compatibility, vol. EMC-46, no.1, Feb. 2004, S.107-110.

M. Leone
The Radiation of a Rectangular Power-Bus Structure at Multiple Cavity-Mode Resonances IEEE Trans. Electromag. Compatibilit
vol. EMC-45, no.3, Aug. 2003, S.486-492.

M. Leone, T. Fischer, M. Albach
Investigation of the Radiation from Parallel-Plane Power-Bus Structures
on Printed Circuit Boards
Electrical Engineering (Archiv für Elektrotechnik), Springer-Verlag, vol. 85, no. 2,
May 2003, S. 113-118.

V. Navratil, M. Leone
The Effect of Differential Driver Asymmetries on Common-Mode Frequency Spectrum
Radioengineering, vol.12, no.1, April 2003, S. 1-4.

M. Leone, W. Eurskens, M. Rinne
Hochfrequenz-Modellierung von IC-Gehäusen
ELEKTRONIK, 22/2001, S. 80-85.

M. Leone
Design Expressions for the Trace-to-Edge Common-Mode Inductance of a
Printed Circuit Board
IEEE Trans. Electromag. Compat., vol. EMC-43, no. 4, Nov. 2001, S. 667-671.

M. Leone, H. L. Singer
On the Coupling of an External Electromagnetic Field to a Printed Circuit Board Trace
IEEE Trans. Electromag. Compat., vol. EMC-41, no. 4, Nov. 1999, S. 418-424.

S. Zappe, M. Leone, F. Yang, E. Obermeier
Characterisation of Silicon Carbide JFETs with Respect to Microsystems for High
Temperature Applications
Microsystem Technologies 3 (3), Springer-Verlag, May 1997, S. 134-138.

A. Umbach, M. Leone, G. Unterborsch
High-frequency behavior of waveguide integrated photodiodes monolithically integrated on InP using optical butt coupling
Journal of Applied Physics, Vol. 81 (6), March 1997 S. 2511 - 2516.

Konverfenzbeiträge, Vorträge Workshops und Seminare

M. Leone
EMV-Analyse und -Diagnostik in der industriellen Praxis
Seminarvortrag im Institut für Messtechnik / Elektromagnetische Verträglichkeit,
Techn. Universität Hamburg-Harburg, Dez. 2006

M. Valek, M. Leone
Radiation Model for Small Horizontal Submodules
EMC Europe '06 Intern. Symposium on Electromagnetic Compatibility, Barcelona,
Sept. 2006, S. 426-430.

M. Leone
Sicherstellung der EMV durch Modellierung und Simulation
Otti-Kolleg Profiseminar, IHK- Regensburg, 25-27. Sept. 2006

M. Leone
EMC-Analysis and Simulation of Electronic Systems in the Industrial Environment
IEEE EMC Society, Region 8 Workshop on Computational Electromagnetics (CEM) Computer Modeling and Simulation, Techn.
Universität Hamburg-Harburg, Mai 2006.

F. Leferink, C. Christopoulus, M. Leone, A. Soubeyran, M. van Dorn
The Strategic Research Agenda on EMC in the next (7th) European Research Framework Programme (2007-2013)
Proceedings of the 2nd Pan-Pacific EMC Joint Meeting, Okayama, Japan, May 25-26, 2006

M. Leone, D. Hoffmann
Leiterplattenanalyse und -Diagnostik im Produktentstehungsprozess
EMV 2006, 10. Intern. Fachmesse u. Kongress, Düsseldorf, März 2006.

M. Leone (Best Paper Award)
Modellierung des Strahlungsmechanismus von Motherboard-Subboard Strukturen
EMV 2006, 10. Intern. Fachmesse u. Kongress, Düsseldorf, März 2006, S. 639-646

M. Leone
Methods of Analysis and Simulation regarding the Electromagnetic Compatibility of Electronic Products (Invited Paper)
13th Conference on Microwave Techniques - COMITE 2005, Czech Technical University in Prague, Prag, 26-28. Sept. 2005,
Plenary lecture.

M. Valek, M. Leone
Radiated Emission Measurement of Printed Circuit Boards in the GTEM Cell and GTEM-to-OATS Correlation Factor
13th Conference on Microwave Techniques - COMITE 2005, Czech Technical University in Prague, Prag, 26-28. Sept. 2005,
S.155-158.

M. Leone
Sicherstellung der EMV mit Simulationsverfahren-Anwendungsbeispiel: Grundlegende
Abstrahlungsmechanismen auf Leiterplatten- und Geräteebene
Otti-Kolleg Profiseminar, IHK- Regensburg, 19.-21. Sept. 2005

S. Helmers, M. Leone
Zur Analyse von HPM-Effekten an Kommunikationssystemen
Symposium EME 2005 "Elektromagnetische Effekte", Bundesakademie für Wehrverwaltung und Wehrtechnik, Mannheim, Sept. 2005.

M. Valek, M. Leone, F. Schmiedl
Analysis of the Electromagnetic Radiation Behavior of Motherboard-Subboard Structures
Proc. of the VIth Intern. Symp. on EMC and Electromagn. Ecology, St. Petersburg, 21-24 Juni 2005, S.175-178.

M. Valek, M. Leone, F. Schmiedl
Simulation of the Unintentional Radiated Interference of Electronic Modules
Proc. of the Radioelektronika 2005, 14th Intern. Czech-Slovak Scientific Conference, Brno, Mai 2005, S.243-246.

M. Leone, S. Wössner, D. Hoffmann
Leiterplattenanalyse und -Diagnostik im Produktentstehungsprozess
EMV 2005 Intern. Messe mit Workshops für Elektromagnetische Verträglichkeit,
Messe Stuttgart, 15-17 März 2005.

M. Leone, H.-D. Brüns, D. Leugner
Numerical Simulation of Power-Bus Structures on Printed Circuit Boards
Proc. of the 16th Int. Zürich Symp. on Electromagn. Compatibility, Feb. 2005, S.435-438.

M. Leone
Sicherstellung der EMV mit Simulationsverfahren-Anwendungsbeispiel: Grundlegende
Abstrahlungsmechanismen auf Leiterplatten- und Geräteebene
Otti-Kolleg Profiseminar, IHK- Regensburg, 20.-22. Sept. 2004

M. Leone
Investigation of the Electromagnetic Radiation from Motherboard-Daughterboard Structures
EMC Europe '04 Intern. Symposium on Electromagnetic Compatibility, Eindhoven,
Sept. 2004, S. 355-360.

H.-D. Brüns, H. Singer, D. Stoll, L. Henze, J.R. ter Haseborg, M. Sabielny, U. Jakobus,
M. Leone, D. Leugner
Benchmarking with MOM and Hybrid Techniques
IEEE 2004 Intern. Symp. on Electromagn. Compatibility, Santa Clara, Aug. 2004.

M. Leone
Computational Radiated-Susceptibility Analysis on the Printed-Circuit-Board Level
EUROEM 2004 Euro Electromagnetics, Magdeburg, Juli 2004, Book of Abstracts,
HPEM 5-10, S. 39.

S. Helmers, M. Löbmann, D. Hoffmann, M. Leone
A Case Study of the Impact of High Power Microwaves on Communication Systems
EUROEM 2004 Euro Electromagnetics, Magdeburg, Juli 2004, Book of Abstracts
HPEM 1-1, S. 21.

A. Kost, D. Stoll, N. Henze, M. Leone
IEEE Region 8 Workshop on Numerical Field Computation: Part II: EMC-Benchmark
Examples for the Validation of Numerical Field-Simulation Methods
EUROEM 2004 Euro Electromagnetics, Magdeburg, Juli 2004.

V. Navratil, M. Leone
Modeling the Electromagnetic Radiation from Mother-/Daughterboard Structures with Respect to the Connector Pin Configuratio
(Invited Paper)
Progress in Electromagnetics Research Symp. (PIERS), März 2004, Pisa, Italy, Session 05.

M. Leone (Best Paper Award)
Abstrahlungseigenschaften von flächigen Versorgungsstrukturen auf
High-Speed-Baugruppen
EMV 2004, 9. Intern. Fachmesse u. Kongress, Düsseldorf, Feb. 2004, S. 325-332.

M. Leone, G. Mönich
Verkopplung der Innenräume von Gehäusen mit Öffnungen über externe Verkabelung
EMV 2004, 9. Intern. Fachmesse u. Kongress, Düsseldorf, Feb. 2004, S. 301-308.

G. Antonini, J.L. Drewniak, M. Leone, A. Orlandi, V. Ricchiuti
Statistical Approach to the EMI Modeling of large ASICs by a Single Noise-Current-Source
Proc. of the 12th Topical Meeting on Electrical Performance of Electronic Packaging EPEP 2003, Oktober 2003, Princeton (N.J.)
USA, S. 345-348.

O. Franek, V. Navratil, M. Leone, Z. Raida
Analysis of Gigahertz TEM Cell Using Contour-Path and Nonorthogonal FDTD Methods
Int. Conf. on Electromagnetics in Advanced Applications IEAA 2003, Sept. 2003, Torino,
Italy, S.115-118.

V. Navratil, M. Leone
The Effect of Differential Driver Asymmetries on Common- and Differential-Mode
Frequency Spectrum with Regard to EMC
4th Intern. Conf. of Ph.D. Students, Univ. of Miskolc, Hungary, 11.-17. Aug. 2003,
S. 133-138

T. Fischer, M. Leone, M. Albach (Best Paper Award)
An Analytical Model for Studying the Electromagnetic Radiation of Power-Bus Structures
IEEE 2003 Intern. Symp. on Electromagn. Compatibility, Boston, Aug. 2003, S. 225-230.

V. Navratil, M. Leone, J. Svacina (Best Student Paper Award)
Effect of Driver Parameters and Line Termination on the EMI Behaviour of
Differential Signalling
Proc. of the Intern. Conference and Competition STUDENT EEICT 2003, Brno University of Technology, Brünn, 2003, S.66-70.

M. Leone, V. Ricchiuti, A. Orlandi, G. Antonini
Measurement and Modeling of the Noise Current Spectrum for large ASICs
Proc. of 7th IEEE Workshop on Signal Propagation on Interconnects, Siena, Mai 2003,
S. 53-56.

V. Navratil, M. Leone
Effect of Current Imbalance on the EMI Behavior of Differential Signalling
Radioelektronika 2003, 13th Intern. Czech-Slovak Scientific Conference, Brno, Mai 2003,
S. 257-260.

M. Leone
Closed-Form Expressions for the Common-Mode Inductance of Single and Differential
Traces above a Ground Plane with a Slit
Proc. of the 15th Int. Zürich Symp. on Electromagn. Compatibility, Feb. 2003, S. 187-192.

M. Leone, V. Navratil
Analysis of the Common-Mode Radiation from Differential Signalling on Printed
Circuit Boards (Invited Paper)

Proc. of the 15th Int. Zürich Symp. on Electromagn. Compatibility, Feb. 2003, S. 437-442.

G. Mönich, M. Leone
On the Coupling of Slits in Electrically Small Enclosures to External Cabling Structures
Proc. of the 15th Int. Zürich Symp. on Electromagn. Compatibility, Feb. 2003, S.197-202.

M. Leone
Modeling of Fundamental Radiation Mechanisms in Electronic Systems for EMC Analysis
Technical University Brno, Institute of Radioelectronics, Brünn, Nov. 2002.

M. Leone, L. Jung
Quantification of the Radiation Level of Power-Bus Structures on Printed Circuit Boards EMC Europe '02 Intern. Symp. on Electromagn. Compatibility, Sorrento, Sept. 2002,
S. 317-321.

M. Leone (Best Paper Award)
Ermittlung des Gleichtakt-Abstrahlungspegels von Leiterplatten unter Berücksichtigung
von angeschlossenen Kabeln
EMV 2002 8. Intern. Fachmesse u. Kongreß, Düsseldorf, April 2002, S. 183-190.

M. Leone, H. Singer
Modeling Guidelines for the Simulation of Transmission-Line and Printed-Circuit Board Structures with the Method of Moments
Proc. of the 14th Int. Zürich Symp. on Electromagn. Compatibility, Feb. 2001, S. 259-264.

M. Leone, H. Brüns, H. Singer
Effiziente Simulation der Abstrahlung von Leiterplatten auf Geräteebene
EMV 2000 8. Intern. Fachmesse u. Kongreß, Düsseldorf, Feb. 2000, S. 429-436.

M. Leone, L. Jung, H. Singer, J.L. ter Haseborg
Strahlungseinkopplung in Leiterplatten - Messung und Simulation
EMV 2000 8. Intern. Fachmesse u. Kongreß, Düsseldorf, Feb. 2000, S. 451-458.

H. Brüns, H. Singer, M. Leone
Application of the Method of Moments (MoM) to a Challenging Real-World EMC Problem,
IEEE 1999 Intern. Symp. on Electromagn. Compatibility, Seattle, Aug. 1999, S. 684-689.

M. Leone, H. Singer
Efficient Computation of Radiated Fields from Finite-Size Printed Circuit Boards Including the Effect of Dielectric Layer,
IEEE 1999 Intern. Symp. on Electromagn. Compatibility, Seattle, Aug. 1999, S. 85-90.

M. Leone, H. Brüns, H. Singer
Fast Susceptibility Analysis for Printed Circuit Boards Using an Equivalent-Wire
Method of Moments
Proc. of the 13th Int. Zürich Symp. on Electromagn. Compatibility, Feb. 1999, S. 251-256.

M. Leone, H. Brüns, H. Singer
Fast EMC Analysis for Printed Circuit Boards Using an Equivalent-Wire
Method of Moments
Intern. Symp. on EMC'98 Rom, Sept. 1998, S. 7-12.

S. Zappe, M. Leone, F. Yang, E. Obermeier
Characterisation of Silicon Carbide JFETs with Respect to Microsystems for High
Temperature Applications
Techn. Digest MICROSYSTEM Technologies 96, S. 67-72.