

2025 International Symposium on Electromagnetic Compatibility - EMC Europe

**Paris, France
1-5 September 2025**

Pages 1-685



**IEEE Catalog Number: CFP2506F-POD
ISBN: 979-8-3315-9646-0**

**Copyright © 2025 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP2506F-POD
ISBN (Print-On-Demand):	979-8-3315-9646-0
ISBN (Online):	979-8-3315-9645-3
ISSN:	2325-0356

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Comparative Analysis of cm Interference of a Buck-Converter for Different Transistor Technologies in Frequency and Time Domain	1
<i>Maximilian Lemke, Jens Aigner, Tobias Dorlemann, Maximilian Ambaum, Stephan Frei</i>	
A Method for Extracting DC Bias Characteristics of Power Modules for Full-Bridge Inverter.....	7
<i>Jaewon Rhee, Sanguk Lee, Changmin Lee, Jiseong Kim, Hongseok Kim, Seungyoung Ahn</i>	
Reduction of Common Mode Conducted EMI in GaN-Based Two-Switch Flyback Converters Using the Delay Compensation Technique.....	12
<i>Alberto Barbaro, Erica Raviola, Franco Fiori</i>	
System-Level Power Integrity Enhancement Based on the Voltage Regulator Behavior Model for High-Performance Computing System.....	18
<i>Sanguk Lee, Seonghi Lee, Jiseong Kim, Yongho Lee, Seungki Nam, Sungwook Moon, Seungyoung Ahn</i>	
Spark Length and Spark Resistance Characterization for Air Breakdown Simulation Validation.....	23
<i>Yang Xu, Jennifer Kitaygorsky, David Johannes Pommerenke</i>	
Opportunities to Improve ESD Protection Simulation Based on Voltage-Dependent Dynamic Model	28
<i>L. Kemystetter, F. Caignet, Alexandre Boyer, Guillaume Mejecaze, Frederic Puybaret, F. Ruffat</i>	
Temperature Dependence of Harmonic Distortion on TVS Structures	34
<i>Gregor Florian Bohm, Leonhard Petzel, Steffen Holland, David Johannes Pommerenke</i>	
Efficient Approach for System-Level ESD Simulation Including Secondary Discharge	40
<i>Subin Jo, Jonghyuk Jeong, Seungil Jeung, Sungjin Lee, Minsung Kim, Byungho Cho, Jaeyong Cho</i>	
Time-Domain EMI Characterisation Methods for Subsurface Radar in Planetary Missions	45
<i>Marc Pous, Pablo Corrales, Marco Nicoletto, Axel Junge</i>	
EMC Analysis on the Integration of an Electric Propulsion Architecture	51
<i>Michael Ridel, Houssem Chebbi, Samuel Bonnard, Michel Beltramini</i>	
Analysis of Common-Mode Coupling Between Cables on Composite Aircraft Panels.....	57
<i>Marcos Quilez, Ferran Silva</i>	
Digital Twins Model of Complete Virtual BCI Qualification for Aeronautical Products.....	63
<i>Pierre Amblard, Tristan Dubois, Jean-Baptiste Begueret, Adil El Abbazi</i>	
An Empirical Evaluation of Machine Learning for Anomaly Detection in Electromagnetic Compatibility.....	68
<i>Pablo Ruiz-Morales, Klaas Pluvier, Dries Vanoost, Davy Pissoort, Mathias Verbeke</i>	
Machine Learning Supported Detection of Incoupling Interfering Signals Through Autoencoders	74
<i>Ilda Cahani, Rebecca Ueltzen, Mohammed ElSayed, Erik Kampert, Marcus Stierner</i>	
Graph Neural Network Assisted Decoupling Capacitor Optimization for Power Distribution Networks in Heterogeneous Integration	80
<i>Wenzu Zhang, Richard Xian-Ke Gao, Enxiao Liu, Dingjie Lu, Jun Liu, Mihai D. Rotaru, Dutta Rahul, N. Sridhar</i>	

LSTM-Based Anomaly Detection for Sensor Data Affected by Electromagnetic Interference.....	85
<i>Rebecca Ueltzen, Ilda Cahani, Mohammed ElSayed, Erik Kampert, Marcus Stierner</i>	
Reduction of Common Mode Interferences in Drive Systems Via Advanced Modulation Techniques	91
<i>Thomas Stoehr, Guido A. Rasek</i>	
Conducted Emissions in Motor Drive Systems: Excitation of Antenna Mode Currents in Shielded Power Cables.....	96
<i>Fahimeh Sepehrpour, Bernhard Wunsch, Enea Bianda, Ville Forsstrom</i>	
Computational Framework to Assess EMI of Grid-Connected Inverters as Function of Topology and PWM Scheme	102
<i>Mehtab Hussain, Herbert Hackl, Hubert Berger, Bernhard Auinger</i>	
Electromagnetic Emissions Mechanisms Below 30MHz in High Voltage Power Switching.....	108
<i>Yosuke Sakurai, Jordi Sole-Lloveras, Yasutoshi Yoshioka, Marco A. Azpurua, Rik W. De Doncker</i>	
SA-PEEC Formulation for Lightning Current Modeling in Conductive Plates : A Parametric Analysis.....	113
<i>Danica Cvetkovic, Sebastien Lallechere, Lionel Pichon, Pierre-Etienne Levy</i>	
Validation of an EMT Model for Surge Protective Devices Against Triggered Lightning Field Data	119
<i>Thomas Tsovilis, Alexandros Y. Hadjicostas, Georgios D. Peppas, Yijun Zhang, Shaodong Chen</i>	
Experimental Investigation of the 8/20(μ s) Impulse Current Level that Causes Transient Voltage Suppressor Diodes to Fail.....	124
<i>Niki I. Gkonou, Georgios D. Peppas, Evangelos D. Petrou, Thomas Tsovilis</i>	
Time Domain Modeling of Lightning Induced Disturbances in a Buried Shielded Cable	129
<i>Bachir Nekhou, Hadjer Chikeur</i>	
Estimation of the Electromagnetic Background Created by Low-Earth Orbit Satellites, Based on the Prediction of the Ground Area Traffic Capacity	135
<i>Vladimir Mordachev, Dzmitry Tsyantenka</i>	
Radiation-Tolerant RF Performance Enhancement of Al _(x) Ga _(1-X) N Graded Composite Barrier GaN HEMTs for Radio Astronomy Applications	141
<i>Ruihao Zhang, Fayu Wan, Tinus Stander</i>	
Interference Analysis of 5G NR on Radio Astronomy in the Upper 6GHz Frequency Range: Mitigation Techniques and Strategies.....	146
<i>Alexander Pastukh, Evgeny Devyatkin, Valery Tikhvinskiy, Aliaksandr Svistunou</i>	
Total Levels of Anthropogenic and Natural Microwave Electromagnetic Background in Areas with Intensive Information Servicing by Constellations of Low-Orbit Communication Satellites	152
<i>Vladimir Mordachev, Dzmitry Tsyantenka</i>	
Comparison of Distance Conversion Factors for H-Field Emissions Limits.....	158
<i>Jordi Sole-Lloveras, Marc Garcia-Bermudez, Yasutoshi Yoshioka, Marco A. Azpurua, Ferran Silva</i>	
Considerations for Radiated Emissions Testing of Large Medical Equipment in the Frequency Range 1--6GHz.....	164
<i>Florian Hubert, Rob Kleihorst, Markus Stumpf, Stefan Blaess</i>	

A Novel Approach for a Reference Radiator in Frequency Range Above 1GHz	170
<i>Alexander Kriz</i>	
On the Estimation of Radiated Emissions from Common Mode Cable Currents.....	176
<i>Suleyman Nokerov, Chynar Seytekova, Merdanmuhammet Yaranov, David Johannes Pommerenke, Sajjad Sadeghi</i>	
Identify EMI Contributors in Circuit Simulation Using Morris Sensitivity Analysis.....	181
<i>Ko Odreitz, Bernd Deutschmann</i>	
Power Electronics Converters Impedance Characterization Device for Low Frequency EMI Analysis.....	187
<i>Abduselam Hamid Beshir, Per Thaastrup Jensen, Pooya Davari</i>	
Comprehensive Performance Analysis of Three-Phase Four-Wire AC Filter from EV On-Board Charger Through Measurement and 3D Simulation Techniques	192
<i>Diana Eremyan, Anna Gheonjian, Zviadi Kut Chadze, Roman Jobava, David Antonic</i>	
Identification Method for Gray-Box Model Parameters of DC-DC Converter	198
<i>Mehyeddine Singer, Arnaud Videt, Nadir Idir</i>	
Future Mobility Electromagnetic Reliability Study Based on HPVC Degradation Evaluation with Electromagnetic Noise Analysis	204
<i>Seokbae Moon, Byung Su Kim, Seung Ho Ahn, Youngduk Han, Hae Lyong Kim, Jae Sang Yoon</i>	
EMC Filter Drift Induced by Thermal Aging: Efficient Source Identification and Component Level Accelerated Aging Test.....	209
<i>Matthieu Laidet, Alexandre Boyer, Julien Gazave, Sonia Ben Dhia</i>	
Degradation Characteristics of EMI Suppression Film Capacitors Under Combined Electro-Thermal-Humidity Stress and Their Impact on EMI Filter Performance	215
<i>Zhaoxin Wang, Bo Yao, Szymon Pasko, Xing Wei, Huai Wang, Pooya Davari</i>	
Investigation of Radiated EMI Evolution of High-Power Density GaN-Based Converter Under Short-Circuit Accelerated Aging	221
<i>M. Belguith, S. Eloued, Moncef Kadi, J. Ben Hadj Slama, M. Hamouda</i>	
Estimating Characteristic Parameters of the Field Radiated by an IEMI Source	227
<i>Frank Sabath</i>	
Extensive Susceptibility Analysis of a (mu)C-Servomotor Chain to IEMI	233
<i>J. Sobas, A. Duguet, G. Duchamp, Tristan Dubois</i>	
Study on the Damage Effect of PIN Limiter Under High-Power Microwave Injection.....	239
<i>Ruxin Zheng, Shiping Tang, Zhongyuan Zhou, Chengjie Li</i>	
Dazzle Effect on Automatic Gain Control Circuits Exposed to Intentional RF Pulsed Interference.....	245
<i>T. Billaux, J. Raoult, B. Saggin, P. Hoffmann</i>	
AI-Based Design and Optimization for Automotive High-Voltage Filters Focusing on Novel Cost-Effective Filter Structures.....	250
<i>Nima Tashakor, Ben Esser, Bastian Arndt, Peter Olbrich, Jens Friebe, Artjom Avakian</i>	
Frequency Response Estimation Via Multi-Coefficient Surrogate Models of Rational Complex Functions	256
<i>Patrick D. Gsoels, Yousteina Guirguis, Jan C. Hansen</i>	

Development of an Electromagnetic Model for Non-Radiating Slotted Waveguides and Simulation-Based Metamodeling Strategies	261
<i>Simon Marxgut, Daniel Baumgarten, Dominik Mair</i>	
The Impact of Loading on the Equivalence of Working Volumes in Reverberation Chambers	267
<i>Anett Kenderes, Peter Tamas Benko, Szabolcs Gyimothy</i>	
Influence of HV-AN and Cage Filter in Emissions Measurements According to CISPR25.....	273
<i>Frederic Lafon, Remy Perrot, Xavier Bunlon</i>	
HV eDrive System Impedance Analysis for Insertion Loss Characterization of Active EMI Filters	279
<i>Faryal Baig, Guido A. Rasek, Georg Mohlenkamp, Magdalena Jurcevic, Raul Blecic, Andro Broznic</i>	
Electric Vehicle HV-DC EMC Filter Loss Due to Variations in AC-Load Configuration	285
<i>Lennart P.P.B. Bohl, Guido A. Rasek, Mohamed Abdallah, Cheng Yang, Christian Schuster</i>	
Evaluating Conducted Emissions Up to 150kHz from DC Electric Vehicle Charging Stations.....	291
<i>Tycho van Leersum, Tom Hartman, Niek Moonen, Thijs van Wijk, Gert Rietveld</i>	
Real-Time Jammer Localization Inside a Building Based on a Machine Learning Approach	296
<i>Paul Monferran, Jonathan Villain, Antonio Costanzo, Artur N. de Sao Jose, Virginie Deniau, Christophe Gransart</i>	
Methodology for Studying a Localized and Non-Intrusive Pulsed Current Injection on an Active Powered System	302
<i>Leo Durand, Tristan Dubois, Jean-Michel Vinassa, Guillaume Mejecaze, Laurine Curos, Frederic Puybaret</i>	
A Frequency-Domain Technique to Verify the Equivalent Area of a D-Dot Sensor.....	308
<i>Damien Gapillout, Theo Batista, Bertrand Daout, Marc Sallin</i>	
Protecting Sensors from IEMI: Shielding, Absorbers, and Mitigation Techniques	314
<i>Louis Cesbron Lavau, Michael Suhrke, Marian Lanzrath, Peter Knott</i>	
Uncertainty Estimation in H-Field Time Domain Shielding Effectiveness Measurements	320
<i>Julio C. Parra, Marco A. Azpurua, Mireya Fernandez-Chimeno, Frank Leferink</i>	
Limitations of Schelkunoff's Model for Near-Field Shielding in the Two-Parallel Loops Configuration.....	326
<i>Lirim Koraqi, Pavithrkrishnan Radhakrishnan, Alvaro Camacho Mora, Tim Claeys, Johan Catrysse, Davy Pissoort</i>	
FDTD Simulation Study on the Influence of a Board Level Shield's Walls on Its Near-Field Shielding Effectiveness	332
<i>Pavithrkrishnan Radhakrishnan, Lirim Koraqi, Alvaro Camacho Mora, Tim Claeys, Johan Catrysse, Davy Pissoort</i>	
Shielding Effectiveness of Enclosures: Characterising the Transition from Reverberant to Resonant Behavior	338
<i>Ali Ghaffarlouy Raef, Andrew C. Marvin, Simon J. Bale, Martin P. Robinson, John F. Dawson</i>	
Practical Considerations of a Nested Spread Spectrum Modulation to Reduce Electromagnetic Emissions	344
<i>Marco Pfeifer, Raphael Brugger, Bernd Deutschmann</i>	

Experimental Assessment of PMSM with Stator Winding Design Optimization to Enhance HF-EMC Performance in Aircraft Applications	350
<i>Gregory Almeida, Arthur Piat, Sami Hlioui, Sebastien Serpaud, Sylvain Girinon, Mathieu Couder</i>	
Precise High-Frequency Impedance Measurements of Electric Vehicle Cylindrical Battery Cells Under Bias Current and at Various Temperatures.....	356
<i>Magdalena Jurcevic, Andro Broznic, Raul Blecic</i>	
Time-Domain Measurement Method for Simultaneous Evaluation of 16 Measurement Points for Intrinsic-Testing of Electric Drive Systems.....	362
<i>Michael Fuchs, Peter Olbrich, Bastian Arndt</i>	
Evaluating EMI Emission Challenges in Drive Inverter Testing Using Electrical Machine Emulators	367
<i>Michaela Gruber, Michael Beltle, Stefan Tenbohlen</i>	
Comparative Analysis of Conducted Emissions Between 3-Level and 2-Level Inverters for Automotive Drives	373
<i>Georgios Mademlis, Rishav Dubey, Varun P. Kannan, Helin Zhou, Kooros Moabber</i>	
Emission Measurements on Electric Vehicle Charging Stations Using a Battery Impedance Emulator	379
<i>Sebastian Jeschke, Holger Hirsch, Jan Weber, Jorg Barenfanger</i>	
Impact of PWM Techniques on Conducted Emission in Three Phase DC-Fed Motor Drives	384
<i>Pooja Babu, Samarjeet Singh, Nicklas Christensen, Pooya Davari</i>	
Human Occupancy Estimation with Human Body Mie Scattering Model in Reverberant Environments.....	390
<i>K.M.S. Alidjan, J.P. Linnartz, H.J. Hartmann, Ramiro Serra</i>	
Full-Body Vs. Head-Only Modeling: Full Wave Computational SAR and Adaptation of Corresponding ANN Models	396
<i>Hamideh Esmaeili, Cheng Yang, Christian Schuster</i>	
EM Environment Through Different Lenses: ICU Room Measurements with Different Strategies	402
<i>Sebastian Salas Laurens, Barbel van den Berg-de Bakker, Anne Roc'h</i>	
Estimation of cm Input Impedance of a Structure Containing Medical Wearable Devices on Saline	408
<i>M. Khorramizadeh, Laurens A. Bronckers, Anne Roc'h</i>	
Effect of Inhomogeneous Cross-Plane Fiber Density of a CFRP Lamina on Shielding Effectiveness	414
<i>Balint Pinter, Jozsef Pavo, Peter Tamas Benko</i>	
Wideband One-Port Complex Permittivity Measurement of Flexible Shielding Materials Using a Radial Waveguide.....	420
<i>S. Barzegar, M. Baharian, Anne Roc'h, Laurens A. Bronckers</i>	
Absorption Effects on Shielding Effectiveness Through Anechoic and Reverberation Chamber Measurements.....	425
<i>Mehmet Faruk Cengiz, Hans Schipper, Marco A. Azpurua, Robert Vogt-Ardatjew, Frank Leferink</i>	
EMI Shielding Effectiveness Characterization of Carbon and Metal Filler FFF Polymer Composites.....	431
<i>Subramaniam Saravana Sankar, Eliska Strajtova, Stanislav Kovar, Stanislav Gona, Marek Jurca</i>	

A Hybrid Modelling Approach for Evaluating the Emissions from a Powertrain	436
<i>G. Di Mambro, S. Sibilio, D. Capraro, A.G. Chiariello, D. Capriglione, A. Maffucci</i>	
Hybridization of Full-Wave FDTD Solver with a Multilevel Multiconductor Transmission Line Solver with Ngspice Interconnections	440
<i>Alberto Gascon Bravo, Luis D. Angulo, Carlos J. Ramos-Salas, Ferran Silva, Marcos Quilez, Salvador G. Garcia, Enrique Pascual</i>	
Common Mode Coupling of 3D-FDTD and MTL Methods for In-Situ Cable Bundle Modeling.....	446
<i>Christophe Guiffaut, Alain Reineix, Thomas Strub</i>	
Accurate and Efficient Modelling of Wideband Wire Crosstalk with the Method of Moments.....	452
<i>William R. Dommissse, Matthys M. Botha, Thomas Rylander, Jan Carlsson</i>	
Analysis of Magnetic Field Penetration into a Slotted Rectangular Enclosure	457
<i>Hyun Ho Park</i>	
New 1GHz Triaxial Cell for Shielding Effectiveness Measurement	461
<i>Katherine Valencia, Habib Boulzazen, Moncef Kadi, Nizar Bechir, Xavier Leron, Fabien Ndagijimana</i>	
An A-T-A-T Typed Frequency Selective Rasorber for C and X Bands Wireless Applications	467
<i>Zhaoran Chen, Junjie Hu, Xiayuan Yao</i>	
Novel Near-Field Numerical Approach for Radiated EMI Modelling in GaN DC-DC Converters	472
<i>M. Belguith, S. Eloued, Moncef Kadi, J. Ben Hadj Slama, M. Hamouda</i>	
Effective Mitigation of Radiated Emissions from a Variable Speed Motor Drive.....	478
<i>Bernhard Wunsch, Fahimeh Sepehripour, Enea Bianda, Ville Forsstrom</i>	
Optimizing Antenna Placement for Improved Operational Performance of Antennas on a Warship	484
<i>C. Bayseferogullari, M. Ural</i>	
EMC Characterization and Analysis of the Attitude Determination and Control System (ADCS) Board of a CubeSat Platform.....	489
<i>E. Munoz-Arredondo, A. Serratos-Miguel, C. Romo-Fuentes, R.G. Chavez-Moreno, J.A. Ferrer-Perez</i>	
Modeling by Nonuniform Transmission-Line Approach of Grounding Electrodes Under Lightning Currents	495
<i>Bachir Nekhou, Ahmed Boutadjine</i>	
Impact of Current Monitoring Probes on ESD Waveforms: Experimental and EM Simulation Analysis	501
<i>Panagiotis K. Papastamatis, Eleni P. Nicolopoulou, Christos D. Nikolopoulos, Nikoleta C. Ilia, Christos A. Christodoulou, Ioannis F. Gonos</i>	
EM Simulation of a SpaceWire Cable for the Calculation of the ESD Induced Shield Current.....	507
<i>Panagiotis A. Kamtsios, Eleni P. Nicolopoulou, Christos A. Christodoulou, Ioannis F. Gonos</i>	
Factors Influencing the Field Exposure Assessment by WPM in Compliance with ICNIRP Guidelines.....	512
<i>Shadi Rbat, David Pouhe</i>	
Four-Season Monitoring of the Local Electromagnetic Landscape in a City Park.....	518
<i>Jolanta Karpowicz</i>	

Comparison Between Neural Network and Kriging Meta-Model Techniques on a Crosstalk Problem Based on Kron's Model	522
<i>Florent Delaporte, Madjid Mahmoudi, Thomas Eudes</i>	
Electromagnetic Interference Caused by Rapid Switching of a DC-DC-Converter with GaN-HFETs	528
<i>Marita Wendt, Erik Kampert, Jost Wendt, Ilda Cahani, Marcus Stiemer, Klaus F. Hoffmann, Stefan Dickmann</i>	
Impact of Diode Variability on EM Immunity: Analysis with Measurement and Simulation	534
<i>Kevin Loudiere, Rasila R. Hirani, Lakshmi N. Narra, Frederic Lafon</i>	
From Static to Dynamic: Modeling, Characterization, and Optimization of GaN HEMTs with EMC Considerations	540
<i>Mohamed Foued Guellati, Zouheir Riah, Yacine Azzouz</i>	
Comparative Study on Temperature Dependency of dV/dt , dI/dt and EMI Generation for IGBTs, Si and SiC MOSFETs	546
<i>Peng Xue, Pooya Davari</i>	
EMC in DC Grids: Problematic Issues in the 2--150kHz Bandwidth	552
<i>Arun D. Khilnani, Angel E.P. Quintal, Mattia Simonazzi, Leonardo Sandrolini, Mark Sumner, Dave W.P. Thomas</i>	
A Study on Improvement of 3-Phase Inverter Current Sensing in the Motor Control System	558
<i>Jungrae Ha, Minho Kim, Sangwoo Kim, Hyewon Lee, Younghoon Lee, Jonghak Jin</i>	
Common Mode Impedance Measurement of Three-Phase Motors Using Pulse Frequency Response Analysis	564
<i>H. Khanbabaee Gardeshi, Anne Roc'h</i>	
Parasitic Mixing of Interference Signals in CMOS Circuits	570
<i>Ralph Prestros, Christoph Brüllinger, Bernhard Auinger</i>	
Designing a SMPS with Basically Zero Earth Current	575
<i>Daniel Kubrich, Jeremias Kaiser, Thomas Durbaum, Josef Deuringer</i>	
Sensitivity Analysis of Distributed PV-Fed AC Distribution Network Supported with Distributed Energy Storage Systems	579
<i>Amr Madi, Ahmed A. Elserougi, Niek Moonen, Robert Smolenski</i>	
High-Fidelity Electromagnetic Modeling for Multi-Output Transformer Design	585
<i>Aladdin Kabalan, Valentin Hard, David Lechat</i>	
Research on the Damage Threshold of Low-Noise Amplifier in High-Power Microwave Environment	591
<i>Jin Wang, Zhongyuan Zhou, Guihua Wang, Chengjie Li, Jinjing Ren</i>	
Derivation of Emission Limits Up to 40GHz in the Era of 5G New Radio Services	596
<i>Yasushi Matsumoto, Ifong Wu, Koh Watanabe, Toshio Chiyojima, Kaoru Gotoh</i>	
Inter-Laboratory Comparison for Military Conducted Immunity Test	602
<i>Osman Ozgur Gursahbaz, Soydan Cakir, Erdem Akpınar, Ali Karaali, Osman Sen, Bahadır Tektas, Yasin Ozkan</i>	
Novel Calibration Approach for Inductive Probes --- Impedance Measurement in Mixed Mode Parameters	608
<i>Altan Akar, Felix Sorge</i>	

Comparison of Uncertainty Evaluation Methods: An Application to D-Dot Sensor Calibration	614
<i>Theo Batista, Damien Gapillout</i>	
Electromagnetic Characterization of sUAVs Through Polarimetric Radar Cross-Section Analysis.....	620
<i>Max Rosenthal, Ralf Vick</i>	
Concept of Improving Field Distribution Using Stirrers in RFID Systems --- Experimental Measurements in EMC Semi-Anechoic Chamber.....	626
<i>Krzysztof Sieczkarek, Adam Mackowiak, Tomasz Warzynski, Agnieszka Swiatek, Jozef Wojciechowski, Xing-Chang Wei</i>	
The Role of Stirrer Fixture Design in a Reverberation Chamber Converted from a Shielded Enclosure.....	632
<i>Anett Kenderes, Csaba Bartfai, Balazs Soos, Peter Tamas Benko, Szabolcs Gyimothy</i>	
Experimental Study on the Effect of Grounding Conditions of DUT and Link-Partner of Automotive Ethernet 100BASE-T1 on BCI Test.....	637
<i>Teppei Ikeda, Yusuke Yano, Koji Ichikawa, Osami Wada, Jianqing Wang</i>	
Investigation and Modelling of Bulk Current Injection Setups with Shielded Cables and Different Terminal Conditions for Virtual Testing	643
<i>Manuel Mikschl, Reinhard Stolle</i>	
RI Testing of the OBU: Electronic Components and Vehicle-Level	649
<i>Hyok Lee, Seung-Gon Park</i>	
Predicting Induced Voltage on PCB Traces in Radiated Immunity Tests with 2D Simulators	653
<i>Priscila Fernandez-Lopez, Kevin Loudiere, Marine Stojanovic, Frederic Lafon</i>	
Localizing Harmonics Source on Large Conductor Based on Near-Field Scanning	659
<i>Rui Mi, Mehdi Gholizadeh, Jin Min, David Johannes Pommerenke</i>	
Weighted-Correlation Near-Field Scanning for Far-Field Radiation Source Identification	664
<i>Yuting Xie, Ling Zhang, Da Li, Er-Ping Li</i>	
Investigating the Challenges of Near-Field to Far-Field Transformation at Low Frequencies in Electromagnetic Compatibility Testing	668
<i>Sajjad Sadeghi, Mehdi Gholizadeh, Jin Min, David Johannes Pommerenke</i>	
Deep Learning-Assisted Phaseless Near-Field Transformation for Accelerating Near-Field Scanning	674
<i>Dong-Hao Han, Xing-Chang Wei, Krzysztof Sieczkarek</i>	
Impact of Filter Placement on the Shielding Effectiveness of a Board-Level Shield.....	680
<i>Alvaro Camacho Mora, Lirim Koraqi, Pavithrakrishnan Radhakrishnan, Davy Pisssoort, Tim Claeys</i>	
Assessing Board Level Shielding Integrity, Measurement Discrepancies and Defect Identification	686
<i>Eliska Strajtova, Subramaniam Saravana Sankar, Stanislav Kovar</i>	
A Hybrid Measurement Setup for Evaluating the Shielding Effectiveness of Small Enclosures in a Reverberation Chamber from 200MHz to 10GHz	692
<i>Zhao Chen, Johan Catrysse, Tim Claeys, Davy Pisssoort</i>	
Investigation of Characteristic Impedance of Installations with Twisted Pairs	698
<i>F. Sahin, Laurens A. Bronckers, Anne Roc'h</i>	

Modeling and Characterization of Near Field Coupling Between a Noise Source and a Wire	704
<i>Martin Humeau, Mohamed G. Congo, Mohsen Koohestani, David Boudikian, Richard Perdriau, Marine Stojanovic, Frederic Lafon, Mohamed Ramdani</i>	
A Comparative Study on the Equivalent Coupling Surface Determination of a Film Capacitor Using Closed TEM, Open TEM, and GTEM Cells.....	710
<i>Mohamed G. Congo, Martin Humeau, Mohsen Koohestani, Marine Stojanovic, Richard Perdriau, Frederic Lafon, Mohamed Ramdani</i>	
Extraction of the Equivalent Coupling Surface of a Capacitor Mounted on a PCB Using Near-Field Scan	716
<i>D. Wanyoike, Alexandre Boyer, Sebastien Serpaud</i>	
Simulink-Based Analysis of Plane Wave Coupling to a Transmission Line with Non-Linear Terminations	722
<i>Satanika Lowe, Mathias Magdowski, Ralf Vick</i>	
On the Time Domain Plane Wave Model for Single Carrier Pulse Response in Reverberation Chambers.....	728
<i>Francesco Pio Cecca, Max Rosenthal, Mathias Magdowski, Ralf Vick</i>	
Evaluation of Electrical Fields in Reverberation Chambers Using the Chi Distribution.....	734
<i>Kristian Karlsson, Henrik Toss, Bjorn Bergqvist</i>	
Unbiased Estimation of Reverberation Chamber Quality Factor Using Frequency Sweep Only.....	739
<i>D. Quenson, Philippe Besnier, F. Lago, Q. Simon, X. Castel</i>	
Impact of Asynchronous Stirring on the Estimation of Field Homogeneity in Mode-Stirred Reverberation Chambers	745
<i>C. Carobbi, Ramiro Serra</i>	
Semiconductor-Focused Simulation Environment for Emitted Noise Sensitivity of MOSFET Parameters	751
<i>Robert Kragl, Steffen Beushausen, Karl Oberdieck, Konstantin Spanos, Ingmar Kallfass</i>	
Susceptibility to RFI of Monolithic GaN Current Sources.....	757
<i>Filippo Carastro, Davide Lena, Franco Fiori</i>	
The Influence of Ionizing Radiation on the Electromagnetic Immunity of a Bandgap Reference	763
<i>Nikolaus Juch, Alicja Michalowska-Forsyth, Daniel Kircher, Bernd Deutschmann</i>	
Simulation of an IC Level Radiated Immunity Portable Transmitter Test.....	768
<i>Aymen Ben Saada, Renaud Gillon, Patricia Joris</i>	
Impact of Triggering-Probe-Connection on Evaluating Side-Channel Information Leakage from Cables.....	773
<i>Daisuke Hamamoto, Masaki Hoimuro, Kengo Iokibe, Yoshitaka Toyota, Noriaki Kawanishi</i>	
Multiband Pixel Colour Classification from HDMI Emissions.....	778
<i>Dimitrije Erdeljan, Markus G. Kuhn</i>	
Diode-Based Multi-Trojan RF Retroreflector Attack	784
<i>Pierre Granier, Marie-Ainhoa Nicolas, Jordane Lorandel, Christophe Moy, Philippe Besnier, Matthieu Davy, Francois Sarrazin</i>	

A Countermeasure Against Eavesdropping on a Display Using Time-Varying Frequency-Selective Shielding.....	790
<i>Koichi Furuya, Tsuyoshi Kobayashi, Yoshiyuki Kusano, Eiji Taniguchi</i>	
A Practical Survey on Multi-Objective Optimization of EMI Filters	795
<i>Robert Orvai, Janos Hamar, Mark Csornyei</i>	
Two-Inputs, Two-Outputs (TITO) Active Filter	801
<i>Amina Gahfif, Pierre-Etienne Levy, Bertrand Revol, Marwan Ali, Francois Costa</i>	
Active Damping Control Design for Single-Phase PFC Performance Enhancement in Supra-Harmonics Range	807
<i>Shuting Li, Halime Hizarci, Dinesh Kumar, Abduselam Hamid Beshir, Pooya Davari</i>	
Digital Active cm EMI Suppression of a DC-DC Converter with Synthesized Switching-Slope Dependent Cancellation Pulses	813
<i>Jens Aigner, Maximilian Lemke, Maximilian Ambaum, Tobias Dorlemann, Stephan Frei</i>	
Crosstalk Between HV Link and Environment: EMC Challenges for Aircraft Hybrid Or Electric Propulsion.....	819
<i>Charles Jullien, Sebastien Le Gall, Thomas Colleter, Mackenzie Pandaleon</i>	
Sensitivity Analysis for EMC and Thermal Optimization in Power Electronic Circuits	825
<i>Karol Niewiadomski, Patrick Koch, Niek Moonen, Mark Gerber</i>	
EMI Filter Design for High-Speed Inverter Drives in All-Electric Aircraft	831
<i>Patrick Koch, Niek Moonen, Mark Gerber, Frank Leferink</i>	
Modelling Serial Arcs in High Voltage DC Aircraft Networks	837
<i>Jesper Lansink Rotgerink, Harmen Schippers</i>	
Challenges in the EMC Characterization of a CIS Camera Module for Medical and Consumer Applications.....	843
<i>Patrick Wiesenhofer, Dominik Kreindl, Bernhard Weiss, Thomas Bauernfeind, Christian Stockreiter</i>	
EMC Analysis and Estimation Method in IoT Embedded System	849
<i>E. Burzi, Antea Perrotta, A. Pali, L. Fabbri</i>	
Investigation on the Susceptibility to RFI of High-Voltage Current Sensors	854
<i>Franco Fiori</i>	
A Combined Common Mode Choke and Transformer Component for Enhanced Miniaturization and Performance.....	860
<i>Jianquan Lou, Alpesh Bhobe, Haiwen Lu</i>	
Modeling of Cryptographic Module with SoC FPGA for Side-Channel Leakage Simulation	864
<i>Kengo Iokibe, Soma Tanimoto, Hayato Chikamori, Masaki Himuro, Yoshitaka Toyota</i>	
Clock-To-Clock Modulation Covert Channel.....	869
<i>Mohamed Alla Eddine Bahi, Maria Mendez Real, Erwan Nogues, Maxime Pelcat</i>	
Arbitrary Data Injection into CMOS Integrated Circuits Via Dual-Wave Electromagnetic Irradiation	875
<i>Masahiro Kinugawa, Yuichi Hayashi</i>	

Robustness Evaluation of Software-Jamming Countermeasure Against Multivariate and Nonlinear Analysis	881
<i>Taiki Kitazawa, Shohei Matsumoto, Yuichi Hayashi</i>	
Maximizing Shielding Effectiveness of Thin Time-Varying Dielectric Layer	887
<i>Petr Kadlec, Elia Mattucci, Vojtech Bednarsky, Tomas Dolezal, Martin Stumpf</i>	
Silver Deposition on Polymeric Substrate for Electromagnetic Board Level Shielding	893
<i>Victor Mahaut, Tristan Dubois, Alexandrine Gracia, Wilson Maia</i>	
Analytical Thickness Optimization for Microwave Graphene-Based Textile Absorbers Under Oblique Incidence.....	899
<i>A.G. D'Aloia, M. D'Amore, A. Tamburrano, M.S. Sarto</i>	
Electromagnetic Shielding Simulation with Injection Molded Carbon Fiber Reinforced Plastics	905
<i>Philip Reitinger, Michaela Gruber, Torsten Muller, Michael Beltle, Christian Bonten</i>	
EMI Reduction in a Multi-Converter Setup: Correlation Analysis Using Pearson's Random Walk.....	911
<i>Erjon Ballukja, Karol Niewiadomski, Patrick Koch, Niek Moonen, Jacek Bojarski, Mark Gerber</i>	
Extension of Random Walk Modelling of cm Current Harmonics in Multi-Converter Setups	916
<i>Karol Niewiadomski, Erjon Ballukja, Mattia Simonazzi, Leonardo Sandrolini, Jacek Bojarski</i>	
Aircraft High Intensity Radio Frequency Qualification --- New, Fast Stochastic Power Flow Benchmark Versus FDTD Simulation	922
<i>Paul Bremner, Guadalupe Gutierrez, Weitao Dai, Arielle Frank</i>	
CAN Bus Susceptibility to Emulated Electrical Inverter-Driven Air Propulsion System EMI	928
<i>Unai Aizpurua, Kevin Krakow, Tan Cuong Mach, Arne Pahl, Erik Kampert, Stefan Dickmann</i>	
Immunity of Pacemakers Near High Power Systems at 85kHz.....	934
<i>Chaima Elharti, Lucien Hammen, Mohamed Bensetti, Lionel Pichon, Den Palessonga</i>	
Influence of Chassis Materials and Human Postures on the EMF Safety of a Dynamic-WPT System for Automotive Applications	939
<i>Valerio De Santis, W. Boumerdassi, Tommaso Campi, Mauro Feliziani</i>	
Laboratory WPT3 11kW Wireless Power Transfer System Compliant to IEC 61980 Class B H-Field Limits Based on Reference Designs.....	944
<i>Maximilian Hollenbach, Christian Koker</i>	
Multi-Objective Optimization of a WPT System for UAVs	948
<i>Mohammed Terrah, Mostafa-Kamel Smail, Lionel Pichon, Mohamed Bensetti, Abdelhak Goudjil</i>	
Modeling the Electromagnetic Influence of Traction Current on Audio-Frequency Track Circuits.....	953
<i>Volodymyr Havryliuk</i>	
Comparison of the Susceptibility of the GSM-Railway and the FRMCS Communication Protocols Face to Intentional Interferences	959
<i>Papa Boucacar Sarr, Virginie Deniau, Paul Monferran</i>	
Numerical Analysis and Experimental Validation of a Busbar for Railway Power Converters	965
<i>Raffaele De Rosa, Roberto Trani, Pasquale Nacca, Antea Perrotta, Mario Porzio, Vincenzo Improta, Beniamino Cascone</i>	

Monitoring Electromagnetic Interference in the Automation of Urban Rail Transport.....	970
<i>Tetiana Serdiuk, Maksym Serchenko, Artem Smirnov</i>	
Extension of the Shielding Effectiveness Method 'Wire Coupling' for Large Enclosures Up to 44GHz	976
<i>Steffen Schulze, Saad Al-Hamid</i>	
Error Quantification in Multipoint Electromagnetic Field Measurements for Semi-Reverberant Environments.....	982
<i>Ridvan Aba, Miguel Figueirinhas, Mehmet Faruk Cengiz, Robert Vogt-Ardatjew, Frank Leferink</i>	
Dynamic Range Improvement of Non Invasive Shielding Effectiveness Measurement Using a VIRC	987
<i>Q. Jacquet, Guillaume Andrieu, Philippe Besnier, L. Vollet, M. Romero de la Osa</i>	
Numerical Modelling of the EMC Performance of Braided Cables for an Electric Vehicle	992
<i>Daniel Santiago Jimenez Novoa, Mostafa-Kamel Smail, Mohamed Bensetti, Lionel Pichon, Pascal Tremblay, Jean-Francois Hayau</i>	
The Influence of Floor Absorption Materials on the Electromagnetic Field Distribution in Semi-Anechoic Chambers for Pre-Compliance Tests	998
<i>Krzysztof Sieczkarek, Bartłomiej Nagorny, Tomasz Warzynski, Adam Mackowiak, Michal Rokossowski, Radoslaw Szczepanski</i>	
Technique for Fast, Accurate Measurement of Complex Permittivity of EM Materials with Samples of Arbitrary Shape	1002
<i>Isabella Langdon, Martin P. Robinson</i>	
PMC-Based Heatsinks Design with Truncated Cone-Shaped Pins to Reduce Unwanted Electromagnetic Radiations.....	1008
<i>Muhammet Hilmi Nisanci, Baha Kanberoglu, Francesco de Paulis</i>	
Modular Dual-Ridged Horn Antenna Design for EMC Testing in 14.9 to 44GHz Range.....	1013
<i>Adam Tankielun, Shreyas Bharadwaj, Hans-Peter Bauer, Jens Medler, Maximilian Weinzierl</i>	
Testing Non-Linearity and Saturation of a RF Current Probe	1019
<i>Andrea Mariscotti, Michael Mayerhofer</i>	
Low-Frequency Information Leakage Through a Buck Converter Power Stage.....	1025
<i>Tristan Pechereau, Benoit Goral, Charles Joubert, Fabien Mieyeville, Bruno Allard</i>	
Aggregation of Low-Frequency Conducted Emissions in DC Grids with Wireless Power Transfer Chargers.....	1031
<i>Leonardo Sandrolini, Mattia Simonazzi, Andrea Mariscotti</i>	
Experimental Analysis of Interference in Mobile Communication Equipment Based on Noise Spectrum Component.....	1036
<i>Koh Watanabe, Ifong Wu, Yasushi Matsumoto, Satoshi Tanaka, Makoto Nagata, Kaoru Gotoh</i>	
Enhanced RF Spectrum Monitoring with SDR-Based Frequency-Sweep Methods.....	1042
<i>Mirela Sorecau, Emil Sorecau, Alina Bunea, Dan Neculoiu, Florin Popescu, Paul Bechet</i>	
Rail to Ground Voltage Assessment Within the French Railway Framework: Dealing with Non-Compliance in 25kV Alternating Electrification	1048
<i>JuanJose Munoz-Vargas, Habib Osmani, Albane Brasset, Achraf Dsoul</i>	

Simulation of Poynting Theorem in the Time Domain for HERO Assessment.....	1053
<i>A. Laisne, L. Millard, Th. Renou</i>	
Effects on Radio Systems on Military Platforms Using the EMC Standard NRE04S Or Alternatives	1059
<i>S. Linder, K. Wiklundh, K. Fors, M. Elenius, P. Gardin</i>	
Assessing a LED Driver's Aggregated Emissions Using Radiated Emissions Tests	1065
<i>Amr Madi, Matthias Mentzel, Patricia Joris</i>	
Effect of Corrosion and Durability Degradation on Electromagnetic Reliability of an Electrification Vehicle.....	1071
<i>Byung Su Kim, Seung Ho Ahn, Seokbae Moon, Sung Woo Hong, Hae Lyong Kim, Jae Sang Yoon, Beom Jin Choi</i>	
An EMI Filter for a Wide-Bandgap Traction Inverter: From the SPICE Model to Its Characterization.....	1075
<i>Maurizio Tranchero, Paolo Santero, Christian Paulwitz, Stefan Weber</i>	
Power Normalized Random Dipole Model as a Statistical Approach to Challenges in Radiated Emission Assessment.....	1081
<i>Jorg Petzold, Max Rosenthal, Ralf Vick, Xiaofeng Pan, Martin Aidam</i>	
Predictive EMI of Multi-Sourcing Diodes in Converter Designs by DPT Method.....	1086
<i>Yao Pei, David Boudikian</i>	
Influence of Induction Motor Power Rating on EMI Noise in Grid-Fed Motor Drive Systems	1091
<i>Samarjeet Singh, Szymon Pasko, Dinesh Kumar, Christian Wolf, Pooya Davari</i>	
Broadband Interference Analysis and Suppression for Arbitrary Complex Structures Based on a Modal Full-Wave System Description.....	1097
<i>Philipp Herwigk, Marco Leone</i>	
Numerical Characterization of Rodent Exposure Imbalances in Large Reverberation Chambers	1103
<i>A. Faraone, G. Bit-Babik, K. Sanderson, P. Russo, Alfredo De Leo, Valter Mariani Primiani, Valerio De Santis</i>	
Test Vehicle for High Speed Serial Links Characterization Methodology Up to 40GHz on Avionic Boards.....	1108
<i>Soazig Le Bihan, Tristan Dubois, Jean-Baptiste Begueret, Adil El Abbazi, Remi Ferdinand, Clement Monel, Arthur Lacheray</i>	
Importance of Parameter Initialization in the Co-Simulation of Emission in a TEM Cell Using Time Windowing Waveform Relaxation	1114
<i>Md. Moktarul Alam, Mohsen Koohestani, Mohamed Ramdani, Richard Perdriau</i>	
Experimental Evaluation of the Voltage/Current Conversion Factor of Transformer-Type AANs for 8-Wire Unscreened Balanced Pairs by Round Robin Test.....	1119
<i>Nozomi Miyake, Naoya Haraguchi, Fujio Amemiya, Nobuo Kuwabara, Hidenori Muramatsu</i>	
A Tunable Magnetic Field Resonant Probe for High-Frequency Near-Field EMI Scanning.....	1123
<i>Suleyman Nokerov, Lucas Speckbacher, Gregor Steinbauer, Musab Hameed, David Johannes Pommerenke, Sajjad Sadeghi</i>	
Analysis of Wind Farm Grounding Systems During a Direct Lightning Strike	1127
<i>Bachir Nekhoul, Wahiba Maallem</i>	

Comparison of Broadband Signals in Reverberation and Semi Anechoic Chambers.....	1133
<i>Martin Kurka, Jan Weber, Holger Hirsch, Christoph Schwing, Andreas Gierstorfer, Max Weber</i>	
Potential Detection of Periodical Stirring Patterns in a VIRC Using Time-Domain Autocorrelation	1138
<i>Guillaume Andrieu, Nicolas Ticaud, Nicolas Roger</i>	
Reverberation Chamber Design Optimization.....	1142
<i>A. Bothma, J. Gilmore, P.G. Wiid, S. Tshongweni</i>	
FDTD Simulations of Random Boundaries.....	1148
<i>Jawad Ali, Luca Bastianelli, E. Colella, Alfredo De Leo, Franco Moglie, Valter Mariani Primiani</i>	
Electromagnetic Compatibility of Low-Orbit Mega-Constellations and Terrestrial Radio Systems.....	1153
<i>Dzmitry Tsyantenka, Vladimir Mordachev, Aliaksandr Svistunou</i>	
Analysis and 3D Simulation of MnZn Inductors from 20 [°] C Up to 120 [°] C	1159
<i>Josu Jon Etxebarria, Ibai Sanz, Rafael Suarez, Maria Tijero, Roberto Moreno</i>	
Surrogate Modeling of Random Electromagnetic Field Coupling to Transmission Lines Using Support Vector Machine Regression	1165
<i>H. Gueddar</i>	
Investigation and Comparative Study for the Statistical Characterization of Complex Electromagnetic Environments.....	1171
<i>Eyob Woldamanuel, Ramiro Serra</i>	
Probability Densities of Lag-1 in Linear and Circular Time Series Modeling Stirring Processes.....	1176
<i>Rabah Florian Monsef</i>	
Effects of Resonant Frequency Variation in a Vibrating Intrinsic Reverberation Chamber	1181
<i>Lukas Oppermann, Matthias Weidemeier</i>	
Non-Destructive Testing of Generic EUT Based on Measured Absorption Cross Section Ratio	1187
<i>Alan Aliyali, Mattias Elfsberg, Rikard Fridsen-Skogsberg</i>	
A Method for Harmonic Noise Reduction Using Reflected Impedance in Wireless Power Transfer Systems.....	1192
<i>Changmin Lee, Jaewon Rhee, Seongho Woo, Seungmin Ha, Seungyoung Ahn</i>	
PCB Resonators Characterization for Shielding Purposes in DWPT Systems.....	1196
<i>Nunzia Fontana, Sami Barmada, Junda Zhu, Samuele Luterotti</i>	
High Frequency Characterization of Dynamic Wireless Power Transfer Coils for EVs	1202
<i>W. Boumerdassi, S. Cruciani, G. Di Nunzio, A. Sciamanna, Tommaso Campi, F. Maradei, Mauro Feliziani</i>	
Reducing Magnetic Fields in EV Wireless Charging with Resonant Shielding Coils.....	1207
<i>Emir Sulejmani, Florian Steinle, Michael Beltle, Stefan Tenbohlen</i>	
Full-Wave 3D Modeling of Common-Mode Chokes Up to 1GHz.....	1213
<i>Rafael Suarez, Ibai Sanz, Maria Tijero, Roberto Moreno</i>	
Physical Modeling of Saturated Common Mode Choke	1219
<i>Anna Takacs, Balazs Gyure-Garami, Adam Zoltan Abraham, Peter Tamas Benko, Norbert M. Nemes, Ferenc Simon, Bence Bernath</i>	

An Improved Behavioural Modelling Approach for Any Type of Common Mode Choke.....	1226
<i>Mario Steiner, Andree Scambor, Christoph Maier</i>	
Reducing Conducted Emissions at Switched-Mode Power Supplies with a Thermal Interface Material	1232
<i>Victor Solera, Sebastian Mirasol, Jose Torres, Adrian Suarez, Pedro A. Martinez, Antonio Alcarria, Andrea Amaro, Roberto Herraiz</i>	
Time-Domain Physical Bounds in the Worst-Case EMC Analysis: A Plane-Wave Shielding Case	1238
<i>Martin Stumpf, Petr Kadlec, Elia Mattucci, Gulio Antonini, Jonas Ekman</i>	
Determination of Shielding Effectiveness Using High-Frequency Electromagnetic Parameters: Theoretical, Simulation, and Experimental Approaches.....	1242
<i>Roberto Herraiz, Andrea Amaro, Adrian Suarez, Jose Torres, Victor Solera, Pedro A. Martinez, Antonio Alcarria, Ivan Valcarcel</i>	
A Simple, Non-Intrusive and Fast Measurement Method to Estimate Shielding Effectiveness of Planar Samples at High Frequencies	1247
<i>M. Ubaid Imtiaz, Ramiro Serra</i>	
An Alternative Method for Measuring the Transfer Impedance of Coaxial and Data Cables	1253
<i>Frantisek Tragan, Evelina Tourounoglou, Stanislav Kovar</i>	
Exploring Short Pulses in Reverberation Chambers.....	1259
<i>Michael Suhrke, Marian Lanzrath, Benjamin Jorres, Christian Adami</i>	
Enhancing Low Frequency Behavior of Mode-Stirred Chambers.....	1265
<i>Musab Hameed, Lukas Pertoll, Zahraa Ballout, Rosina Marisa Frank, Yang Xu, Sajjad Sadeghi, Atieh Talebzadeh, Mohammad Ali Khorrami, David Johannes Pommerenke</i>	
Empirical Estimation of the Effective Sample Size Based on the Central Limit Theorem in Reverberation Chambers	1270
<i>Anyela Aquino-Velasquez, Philippe Besnier, Priscila Fernandez-Lopez, Mohsen Koohestani</i>	
Enabling 8--12GHz Measurements in a Tabletop Reverberation Chamber.....	1276
<i>Carmelo G. Vella, Laurens A. Bronckers</i>	
A Novel Hybrid Approach to Tune the Rician K-Factor in Reverberation Chambers.....	1282
<i>Alfredo De Leo, Franco Moglie, Valter Mariani Primiani</i>	
Quantum Computational Methods for Higher Order Modes Detection in Transmission Lines	1288
<i>E. Colella, Luca Bastianelli, Valter Mariani Primiani, Franco Moglie, G. Gradoni</i>	
Comparative Analysis of Hierarchical Matrix Formats for Electromagnetic Device Modeling: A Preliminary Study	1294
<i>Francesco Lucchini, Riccardo Torchio</i>	
Broadband Equivalent-Circuit for Microstrip Structures Based on Dyadic Green's Functions.....	1298
<i>Phillip Schulz, Marco Leone</i>	
An Inherently Stable Modal Approach for Incorporating Debye-Modeled Dispersion in FEM-Based Broadband Circuit Models	1304
<i>Chris-Marvin Hamann, Marco Leone</i>	
Targeted EMC Analysis Using a Novel Characteristic Mode Analysis Approach.....	1309
<i>Hannes Schreiber, Philipp Herwigk, Marco Leone</i>	

Attenuation of Common-Mode Currents: Skin Effect and Proximity Effect Optimized Absorptive Low-Pass Filter Layer	1315
<i>Matthias Hampe, Mario Potschatski, Sean-Patrik Cretti</i>	
Analysis and Circuit Modeling of Mode Conversion in Non-Ideal EMI Filters	1321
<i>Ali Jafari Roudposht, Ludovica Illiano, Xinglong Wu, Flavia Grassi, Sergio A. Pignari</i>	
A Tunable Decoupling Network for Common-Mode Noise Reduction in High-Speed Connectors	1327
<i>Chih-Yu Fang, Bin-Chyi Tseng, Jackson Yen, Tzong-Lin Wu</i>	
Electrically Tunable Capacitor for EMC Band-Stop Filters	1332
<i>Timo van Rossen, Ivan Struzhko, Tom Hartman, Frank Leferink</i>	
An Automated Tool for Modelling Impedance for SPICE (ATMIS) with Focus on DC-Bias Dependent Behavioural Passive Component Modelling	1338
<i>Andree Scambor, Christoph Maier, Michael Fuchs</i>	
A New Method for Calculation of Generalized Distributed Capacitance Matrix for Multi-Conductor Transmission Lines	1344
<i>Zhicheng Xue, Yongzhe Wei, Shiping Tang, Xiang Zhou, Jinjing Ren, Mingjie Sheng</i>	
Modeling of Two-Conductor Oblique Cable Used in a Conducted Disturbance Test	1349
<i>Mao Inoue, Koji Nakamura, Tohlu Matsushima, Daisuke Nakayama, Yuki Fukumoto, Nobuo Kuwabara</i>	
Crosstalk of Unshielded Cables Above Glued Overlapping Multi-Material Ground Planes with Flow-Drill Screw Joints	1354
<i>Helin Zhou, Raik Orbay, Georgios Mademlis, Henrik Holst, Mattias Ingvarson, Bjorn Bergqvist</i>	
Comparison Between Shielding Characteristic and Radiated Emission in Shielded Two-Wire Cables	1360
<i>Fumiya Muto, Tatsuki Kashihara, Tohlu Matsushima, Yuki Fukumoto, Koji Kobayashi</i>	
Estimation of Radiated Emissions from Multi-Branch Wire Harnesses Based on Discontinuities and Reciprocity	1366
<i>Noboru Maeda, Naohito Takasuka, Keishi Miwa</i>	

Author Index