

**LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII DOCTORALE,
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Ing. Teodor-Octavian PĂCURAR student doctorand

1. Lucrări științifice publicate în reviste indexate Web of Science-WoS (ISI)

1. A. De Sabata, A. Silaghi, C. Ionica, **O. Pacurar**, "Design of Liquid Based Frequency Selective Surfaces Operating as Absorbers," Advances in Electrical and Computer Engineering, vol.24, no.4, pp.75-82, 2024, doi:10.4316/AECE.2024.04008 (WOS:001415806000008)

2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate Web of Science-WoS (ISI) Proceedings

1. A. Silaghi, **O. Pacurar**, A. De Sabata, "Investigations on radiated emissions repeatability below 30MHz", 2019 International Symposium on Signals, Circuits and Systems (ISSCS 2019), 11-12 July 2019, Iasi, Romania, 2019 (WOS:000503459500075).

2. **O. Pacurar**, A. Silaghi, A. De Sabata, „Aspects regarding radiated emissions produced by a head up display”, 2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME 2019), 23-26 October 2019, Cluj, Romania, pp. 30-33, 2019 (WOS: 000564733700003).

3. **O. Pacurar**, A. Silaghi, C. Balint, A. De Sabata, Adrian Gaur, “Experiments Concerning the Spectrum Structure Inside an Automotive EMC Laboratory”, 2020 International Conference on Development and Application Systems (DAS 2020), 21-23 May 2020, Suceava, Romania, pp. 133-136, 2020 (WOS:000589776100024).

4. **O. Pacurar**, A. Silaghi, A. De Sabata, “Measurement and Simulation of Electrostatic Discharge in the Automotive Industry”, 2020 International Conference on Communication (COMM 2020), 18-20 June 2020, Bucharest, Romania, pp. 443-446, 2020 (WOS:000612723900079).

5. **O. Pacurar**, C. Balint, C. Iftode, A. Silaghi, A. De Sabata, “Spectrum Occupancy Measurements in the Wi-Fi Band with a PCB Antenna”, 2020 14th International Symposium on Electronics and Telecommunications (ISETC 2020), 5-6 November 2020, Timisoara, Romania, pp. 1-4, 2020 (WOS:000612681000036).

6. A. Neiconi, **O. Pacurar**, A. De Sabata, „EMC Parameters used for Helical Antennas in Automotive EMC Testing”, 5-6 November 2020, Timisoara, Romania, (WoS:00612681000035).

7. **O. Pacurar**, A. Silaghi, C. Balan, A. De Sabata, C. Balint, “Study regarding the configuration setup used inside an EMC Laboratory for NFC Communication Measurement”, 2022 IEEE 28th International Symposium for Design and Technology in Electronic Packaging (SIITME), 26-29 October 2022, Bucharest, Romania (WOS:000947243400003)

3. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate BDI (cu specificarea BDI)

1. C. Balint, A. De Sabata, **O. Pacurar**, P. Bechet, „Markov Model for HF Joint Spectrum Occupancy at Two Distant Locations”, The 26th International Conference Knowledge-Based Organization (KBO 2020), 11-13 June 2020, Sibiu, Romania, 2020

Data: 20.03.2025

AVIZAT, Conducător științific	ÎNTOCMIT, Student doctorand
Prof.univ.dr.ing. De Sabata Aldo	ing. Păcurar Teodor-Octavian

A) WOS:001415806000008

Design of Liquid Based Frequency Selective Surfaces Operating as Absorbers

By	De Sabata, A (De Sabata, Aldo) [1] ; Silaghi, A (Silaghi, Andrei) [1] ; Ionica, C (Ionica, Cora) [1] ; Pacurar, O (Pacurar, Octavian) [1]
Are you this author?	
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Abstract	Liquid-based absorbers using frequency selective surfaces (FSSs) rely on 2D periodic lattices. Each unit cell contains one or more resonators filled with liquids, which dissipate electromagnetic energy. Water is preferred because of its wide availability and its high real and imaginary permittivity components. In this paper, we propose and optimize an all-dielectric unit cell structure placed on a metallic plane to function as an absorber when filled with water. A sharp and deep absorption resonance is obtained at 2 GHz, with a relative bandwidth of 14.5%. When optimized to work with methanol as absorbing liquid, the structure presents a resonance frequency of 1.25 GHz, with a relative bandwidth of 36.9%, and a second wide absorption band between 3.56 and 5 GHz. Field images are used to gain insight into the operation of the absorber. The sensitivity of the design to polarization, angle of incidence and temperature has been investigated. The proposed absorber has potential applications in scattering reduction, electromagnetic compatibility and energy harvesting.
Keywords	Author Keywords: electromagnetic compatibility; absorbers; electromagnetic compatibility; electromagnetic modeling; frequency selective surfaces; reflection coefficient Keywords Plus: BROAD-BAND; METAMATERIAL
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Investigations on Repeatability of Radiated Emissions Testing for Frequencies below 30 MHz

By	Silaghi, AM (Silaghi, AAndrei-Marius) ; Pacurar, O (Pacurar, Octavian) ; De Sabata, A (De Sabata, Aldo)
Book Group Author	IEEE View Web of Science ResearcherID and ORCID (provided by Clarivate)
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Document Type	Proceedings Paper
Conference	Meeting: 14th International Symposium on Signals, Circuits and Systems (ISSCS) Location: Iasi, ROMANIA Date: JUL 11-12, 2019 Sponsors: IEEE; IEEE CAS; Gheorghe Asachi Tech Univ Iasi, Fac Elect Telecommunicat & Informat Technol; IEEE Romania Sect CAS Chapter; Infineon; Silicon Serv; Microchip; Sitex 45 SRL; Continental
Abstract	In this paper, some methods concerning improving repeatability of Radiated Emissions (RE) testing for frequencies below 30 MHz are proposed and investigated. The proposals are made in the context of the CISPR 25 Annex J standard and are devised for improving testing activity in the Automotive industry. A proposed solution is intended for reducing spurious signal coupling and resonances during tests in a semi-anechoic chamber. This work represents the continuation of a previous paper by the authors on the topic of Absorber Lined Shielded Enclosure (ALSE) Chamber Validation.
Keywords	Author Keywords: CISPR 25 Annex J; Radiated Emissions; Long-wire method; Automotive
Addresses	¹ Univ Politehn Timisoara, Dept Measurements & Opt Elect, Timisoara, Romania ² Continental Automot Romania, Lab Electromagnet Compatibil, Timisoara, Romania
Categories/ Classification	Research Areas: Engineering Citation 4 Electrical Engineering, Electronics & Computer Technology, 4.58 Wireless Technology, 4.58.2176 Reverberation Chamber Topics: Science Sustainable Development Goals: 11 Sustainable Cities and Communities
Web of Science Categories	Engineering, Electrical & Electronic
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Aspects Regarding Radiated Emissions Produced by a Head Up Display

By: Pacurar, O (Pacurar, Octavian)^[1]; Silaghi, AM (Silaghi, Andrei-Marius)^[1]; De Sabata, A (De Sabata, Aldo)^[1]

2019 IEEE 25TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2019)

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Book Series: International Symposium for Design and Technology in Electronic Packaging

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Published: 2019

Document Type: Proceedings Paper

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Location: Cluj Napoca, ROMANIA

Date: OCT 23-26, 2019

Sponsor(s): IEEE; Politehnica Univ Bucharest, Technol Elect & Interconnect Techn Res Ctr; APTE; Tech Univ Cluj Napoca; IEEE Elect Packaging Soc

Abstract

The radiated emissions (RE) measurement is one of the most important tests that must be performed during a full qualification stage, in order to validate an electronic product for series production, in the automotive industry. Radiated emissions test must ensure that the level of the spurious signals is below a frequency dependent stated value (limit), agreed for proper operation of the DUT in its intended environment and application. The originality of this paper is to present a shielding solution that is confirmed in both near field and far field to reduce the time to market for the product. The magnetic near field measurements are performed by using the EMSCAN system. Acquired near field signals are used for finding the electronic components that are the source of emissions and as guidelines to the solution.

Keywords

Author Keywords: radiated emissions; semi-anechoic chamber; antennas; farfield; near field scanning

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Experiments Concerning the Spectrum Structure Inside an Automotive EMC...

Experiments Concerning the Spectrum Structure Inside an Automotive FMC Laboratory

By

Pascaru, O.T. (Pascaru, Octavian Trodor); Slighi, A.M. (Slighi, Andrei Marius); Bulai, C. (Bulai, Corneliu); De Salazar, A.D. (Salazar, Aldo); Gusa, A. (Gusa, Adrian)

Book Group Author

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2020 12TH INTERNATIONAL CONFERENCE ON DEVELOPMENT AND APPLICATION SYSTEMS (DAS)
Page: 138-139

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Conference

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Date: May 21-23, 2020
Sponsors: Intel-Galileo Univ-Bucuresti; For Elect Engin & Comp Sci/ECEE Ind Appl Syst

Abstract

The electromagnetic environment has changed rapidly in the last decades: the density of pollution sources has increased exponentially. In this paper, a series of measurements inside an Electromagnetic Compatibility (EMC) laboratory are reported. Comparisons are made between measurements made in the usual frequency range used in EMC Automotive Testing, 200 000 MHz. The differences that appear in different chambers are validated by using the noise power density. Noise measurement for the experimental setup is analyzed in detail, considering the contribution of the antennas, cables and pre-amplifier. An alternative method to find the spectrum part containing only noise is proposed.

Keywords

Author Keywords: spectrum analysis; EMC laboratory noise measurements; noise power density

Addresses

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² Univ Stefan cel Mare Suceava, Dept Comput Automot & Elect, Suceava, Romania

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Research Areas: Computer Science; Engineering
Classification: 4 Electrical Engineering, Electronics & Telecommunications
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MEASUREMENT AND SIMULATION OF ELECTROSTATIC DISCHARGE IN THE...

MEASUREMENT AND SIMULATION OF ELECTROSTATIC DISCHARGE IN THE AUTOMOTIVE INDUSTRY

By

Pascaru, O. (Pascaru, Octavian Trodor); Slighi, A.M. (Slighi, Andrei); De Salazar, A.D. (Salazar, Aldo)

Book Group Author

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Meeting: 12th International Conference on Communications (COMM)
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Sponsors: IEEE; Politehnica Univ-Bucuresti; IM Tech Acad Ferdinand I; Academia Stiinta Tehnica

Abstract

Application of electromagnetic (EM) simulation to solving practical electromagnetic compatibility (EMC) issues has gone from a niche activity, motivated by its potential to provide a cost-effective alternative to experiments in compliance testing. A case study of full-wave electromagnetic simulation used for solving electrostatic discharge (ESD) issues, in the case of an Automotive airbag control unit, is reported in this paper. The work involved finding an appropriate model for the testing tool, modeling the equipment under test (EUT) and extracting results from the interaction between the two. Several design modifications have been proposed and assessed by simulation. Results have been validated by comparison against measurements performed in laboratory.

Keywords

Author Keywords: ESD; gsm; CST Microwave Studio; PSpice; laboratory measurements; Automotive

Addresses

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Topic: Computer Science

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Spectrum Occupancy Measurements in the Wi-Fi Band with a PCB Antenna

Spectrum Occupancy Measurements in the Wi-Fi Band with a PCB Antenna

By

Pascaru, O.T. (Pascaru, Octavian Trodor); Bulai, C. (Bulai, Corneliu); Bulai, C. (Bulai, Corneliu); Slighi, A.M. (Slighi, Andrei Marius); De Salazar, A.D. (Salazar, Aldo)

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Abstract

Contemporary development of wireless communication networks caused an increase of electromagnetic interference signal levels in both indoor and outdoor environments. In this paper, a measurement equipment for the field intensity and spectrum occupancy based on a SDN platform and a PCB antenna is described. The equipment has been used for acquiring signals in the Wi-Fi frequency range. Spectrum occupancy has been measured based on an energy threshold detection criterion. Impact of polarization and direction of arrival on the spectrum of the received signal have been assessed.

Keywords

Author Keywords: Electromagnetic Interference; Wi-Fi; Spectrum Occupancy; SDN; PCB Antenna

Addresses

¹ Univ Politehnica Timisoara, Dept Measurements & Opt Elect, Timisoara, Romania
² Univ Politehnica Timisoara, Dept Commun, Timisoara, Romania

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EMC Characteristics of Helical Antennas used in Automotive Testing

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Author IEEE

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Sustainable Development Goals 11 Sustainable Cities and Communities

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Sponsors: Univ Politehnica Timisoara; Fac Elect Telecommunicat & Informat Technologies; Assoc Elect Engineers Timisoara; Acad Stinte Tehnice; IEEE Romanian Sect; Romanian Acad Tech Sci; IEEE; NOKIA; Everseen; Continental; Flex

Abstract Radiated immunity (RI) testing is gaining momentum due to current tendency of increasing presence of complex electronic systems inside cars. Meaningful RI testing results are crucial for driving safety. However, testing equipment is prone to parameter modification because of aging and overuse. In this paper, measurements on NMHA antennas and connectors used in RI testing in the frequency range between 26 MHz and 360 MHz are reported and compared to producers' data and solutions for improving reliability of the tests in a real EMC laboratory context are proposed and assessed.

Keywords Author Keywords: EMC; Radiating Immunity; Helical Antennas; Connectors; VSWR; Smith Chart

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Categories/Classification Research Areas: Engineering; Telecommunications
Citation 4 Electrical Engineering, 4.58 4.58, 2176
Topics: Electronics & Computer Wireless Reverberation

Study Regarding the Configuration Setup used inside an EMC Laboratory for NFC Communication Measurement

By	Pacurar, TO (Pacurar, Teodor Octavian) ; Silaghi, AM (Silaghi, Andrei-Marius) ; Balan, C (Balan, Catalin) ; De Sabata, A (De Sabata, Aldo) ; Balint, C (Balint, Cornel)
Book Group Author	IEEE View Web of Science ResearcherID and ORCID (provided by Clarivate)
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Book Series	International Symposium for Design and Technology in Electronic Packaging
Published	2022
Indexed	2023-03-30
Document Type	Proceedings Paper
Conference	Meeting: 28th International Symposium for Design and Technology in Electronic Packaging (SIITME) Location: Bucharest, ROMANIA Date: OCT 26-29, 2022
Abstract	In this paper, we present a study regarding configuration setup used inside a semi-anechoic chamber, from an EMC Laboratory facility. Comparisons are made at the Near Field Communication (NFC) frequency band of an automotive Device Under Test (DUT) tested at 13.56 MHz, between results obtained with different configurations and different antenna types: monopole antenna and loop antenna.
Keywords	Author Keywords: EMC Laboratory; Loop antenna; NFC; semianechoic chamber; Monopole antenna
Addresses	1 Univ Politehn Timisoara, Dept Measurements & Opt Elect, Timisoara, Romania 2 Univ Politehn Timisoara, Dept Commun, Timisoara, Romania
Categories/ Classification	Research Areas: Engineering Citation 4 Electrical Engineering, Electronics & Computer Technology4.58 Wireless Technology4.58.2176 Reverberation Chamber Topics: Science Sustainable Development Goals: 11 Sustainable Cities and Communities
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June 11-13, 2020

"Nicolae Bălcescu" Land Forces Academy Publishing House

SECTION 6: TECHNICAL SCIENCES AND MILITARY TECHNOLOGY

Chairpersons: **Simona MICLĂUȘ**
Romana OANCEA

Place: *Applied Informatics III. Cyber Security Lab*
Room: 48; Building: D; 2nd Floor

1. *Increasing Productivity with the Combined Use of CAD/CAM/CAE Software Platforms for Collective Work During the Design of the Multipurpose Training-Practice Mortar Round for Short Distance Engagements*, **Stamen Iliev ANTONOV***, **Hristo Angelov HRISTOV****, **Vasil Levski** National Military University, Veliko Tarnovo, Bulgaria, **Bishop Konstantin Preslavsky** University Shumen, Bulgaria
2. *Modern Technologies in Computer Design and Application of Systems for Stress-Strain Calculations of Weapon System Elements*, **Stamen Iliev ANTONOV**, **Vasil Levski** National Military University, Veliko Tarnovo, Bulgaria
3. *Energy Management of Electromechanical Systems on the Board of a Ship*, **Laurențiu Bogdan ASALOMIA***, **Gheorghe SAMOILESCU****, **Northern Marine Management**, Constanța, Romania, **Mircea cel Bătrân** Naval Academy, Constanța, Romania
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5. *Some Classes of Surfaces Generated by Blending Interpolation on a Triangle with One Curved Side*, **Alina BABOȘ**, **Nicolae Bălcescu** Land Forces Academy, Sibiu, Romania
6. *Markov Model for HF Joint Spectrum Occupancy at Two Distant Locations*, **Cornel BALINT***, **Aldo DE SABATA***, **Teodor-Octavian PĂCURAR***, **Paul BECHET****, **Politehnica** University, Timișoara, Romania, **Nicolae Bălcescu** Land Forces Academy, Sibiu, Romania
7. *The Growing Need for Technical Specialization in Cyber Defence of Future Officers: Development and Future Trends*, **Mihaela Anamaria BOSTAN-POP***, **Romana OANCEA****, **Training School for Communications, Information Technology and Cyber Defence**, Sibiu, Romania, **Nicolae Bălcescu** Land Forces Academy Sibiu, Romania