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S01 : Power Amplifier Systems

Chairs: Georg Fischer, Rüdiger Quay

Room G1, Time 14:00 – 15:40, Monday 16 March 2015

PAGE 1 S01.1 14:00	Design Method for Harmonically-Tuned, Dynamic Load-Modulated Power Amplifiers <i>(Konstantinos Mimis, Gavin T. Watkins)</i>
PAGE 5 S01.2 14:20	Linearity Analysis of Class-B/J Continuous Mode Power Amplifiers Using Modulated Wideband Signals <i>(Sebastian Preis, Mhd. Tareq Arnous, Zihui Zhang, Wolfgang Heinrich)</i>
PAGE 9 S01.3 14:40	New Output Network Design Approach for Voltage-Mode Class-S PAs <i>(Dhamia Al-Mozani, Andreas Wentzel, Wolfgang Heinrich)</i>
PAGE 13 S01.4 15:00	Complexity of DPD Linearization in the full RF-Band for a WiMAX Power Amplifier <i>(Nikolai Wolff, Olof Bengtsson, Wolfgang Heinrich)</i>
PAGE 17 S01.5 15:20	Wideband Two-Stage 50W GaN-HEMT Power Amplifier <i>(Chi Thanh Nghe, Daniel Maassen, Gernot Zimmer, Georg Boeck)</i>

S02 : Microwave Sensors

Chairs: Dietmar Kissinger, Joerg Schoebel

Room G2, Time 14:00 – 15:40, Monday 16 March 2015

PAGE 21 S02.1 14:00	M-Sequence-Based Material Characterisation <i>(Carsten Monka, Sebastian Brueckner, Joerg Schoebel)</i>
PAGE 25 S02.2 14:20	Non-Destructive Permittivity Measurement of Thin Dielectric Sheets: Quality Conformance Testing for the Tracking and Imaging Radar TIRA <i>(Peter Knott, Robert Perkuhn)</i>
PAGE 29 S02.3 14:40	System for in-situ Dielectric and Calorimetric Measurements During Microwave Curing of Resins <i>(Vasileios Ramopoulos, Sergey Soldatov, Guido Link, Thorsten Kayser, John Jelonnek)</i>
PAGE 33 S02.4 15:00	Rotation Sensing Based on the Symmetry Properties of an Open-Ended Microstrip Line Loaded with a Split Ring Resonator <i>(Zahra Shaterian, Ali K. Horestani, Christophe Fumeaux)</i>
PAGE 36 S02.5 15:20	A Cylindrical Cavity Resonator for Material Measurements with Coupled Resonant Modes for Sensing and Position Offset Compensation of the Dielectric Specimen <i>(Usman Faz, Uwe Siart, Thomas F. Eibert)</i>

S03 : UHF Communication

Chairs: Ilona Rolfes, Gerald Ulbricht

Room G1, Time 16:00 – 17:40, Monday 16 March 2015

PAGE 40 S03.1 16:00	Usability of Long Term Evolution (LTE) in DLR's Research Aircraft DO 228-212 <i>(Daniel Rosigkeit, Stefan V. Baumgartner, Anton Nottensteiner)</i>
PAGE 44 S03.2 16:20	Development and Analysis of a Modified Saleh-Valenzuela Channel Model for the UHF Band <i>(Artur Nalobin, Sven Dortmund, Sebastian Sczyslo, Jan Barowski, Bastian Meiners, Ilona Rolfes)</i>
PAGE 48 S03.3 16:40	A Digital Up-Sampling Technique for a Heterodyne Digital Centric Transmitter <i>(Pierre Bousseaud, Renato Negra)</i>
PAGE 52 S03.4 17:00	Experimental Investigations on a Stacked Analog-to-Digital Converter Configuration for a High Dynamic Range HF Receiver <i>(Gerald Ulbricht)</i>
PAGE 56 S03.5 17:20	A Wide Dynamic Range Four-Port Spectrum Sensor for Cognitive Radio <i>(Debalina Chatterjee, Kurt Blau, Matthias A. Hein)</i>

S04: Metamaterial Structures

Chair: Dmitry Kholodnyak

Room G2, Time 16:00 – 17:40, Monday 16 March 2015

PAGE 60 S04.1 16:00	Dual-Band Immittance Inverters on Dual-Composite Right/Left-Handed Transmission Line (D-CRLH TL) <i>(Dmitry Kholodnyak, Viacheslav Turgaliev, Evgenia Zameshaeva)</i>
PAGE 64 S04.2 16:20	Single and Dual Band-Notched Ultra-Wideband Antenna Based on Dumbbell-Shaped Defects and Complementary Split Ring Resonators <i>(Ali K. Horestani, Zahra Shaterian, Thomas Kaufmann, Christophe Fumeaux)</i>
PAGE 68 S04.3 16:40	Filter-Based Slow Wave Structures for Application in Chipless Microwave RFID <i>(Matthias Nickel, Christian Mandel, Martin Schüßler, Rolf Jakoby)</i>
PAGE 72 S04.4 17:00	Using Metamaterial Resonators for Controlling Surface Wave Modes in an Open Waveguide <i>(Sakineh Tooni, Larissa Vietzorreck, Thomas F. Eibert)</i>
PAGE 76 S04.5 17:20	Novel Planar Electromagnetic Bandgap for Mutual Coupling Reduction Between Patch Antennas <i>(Akanksha Bhutani, Benjamin Göttel, D. Müller, Thomas Zwick)</i>

S05 : Passive Circuits

Chair: Klaus Helmreich

Room G1, Time 08:30 – 10:10, Tuesday 17 March 2015

PAGE 80 S05.1 08:30	Wideband Ring-Hybrid with Quadrature-Phase Outputs for High-Power Applications <i>(Saad Qayyum, Muh-Dey Wei, Renato Negra)</i>
PAGE 84 S05.2 08:50	A Wideband Radial Substrate Integrated Power Divider at K-Band <i>(Christian Rave, Arne F. Jacob)</i>
PAGE 88 S05.3 09:10	Using Coupled Vias for Band-Pass Filters in Multilayered Printed-Circuit Boards <i>(Andreas Hardock, Christian Schuster)</i>
PAGE 91 S05.4 09:30	Passive Reciprocal Transistor-Based RF Tuneable Inductances <i>(Stefanie Kühn, Ralf Stephan, Kurt Blau, Matthias A. Hein)</i>
PAGE 95 S05.5 09:50	Distributed Active Balun with Improved Linearity Performance <i>(Mirko Palomba, Diego Palombini, Sergio Colangeli, Riccardo Cleriti, Ernesto Limiti)</i>

S06: Electromagnetic Theory

Chair: Larissa Vietzorreck

Room G2, Time 08:30 – 10:10, Tuesday 17 March 2015

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08:30

Combined CGF-PML and CGF-RFFM for Efficient and Uniform Modal Derivation of Green's Function of Planar Layered Media
(Abdorrezza Torabi, Amir Ahmad Shishegar)

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S06.2
08:50

Spin-Wave Eigenmodes and Magnetic Resonance in Thin Metallic Film
(A.B. Rinkevich, D.V. Perov)

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S06.3
09:10

FDTD Method Incorporating the Doppler Effect
(Andreas R. Diewald)

S07: Medical Applications of Microwaves

Chairs: Christian Wünsch

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PAGE 111 S07.1 08:30	Improved B_1 Distribution of an MRI RF Coil Element Using a High-Impedance-Surface Shield <i>(Zhichao Chen, Klaus Solbach, Daniel Erni, Andreas Rennings)</i>
PAGE 115 S07.2 08:50	Comparison of Local Transmit Antennas for Extremity Imaging in MRI <i>(Johanna Schöpfer, Stephan Biber, Martin Vossiek)</i>
PAGE 119 S07.3 09:10	Power Amplifier for Magnetic Resonance Imaging Using Unconventional Cartesian Feedback Loop <i>(Ashraf Abuelhaija, Klaus Solbach, Adam Buck)</i>
PAGE 123 S07.4 09:30	Vivaldi Antenna with Improved Directivity for Medical Applications <i>(Jerzy Kowalewski, Utpal Dey, Tobias Mahler, Thomas Zwick)</i>
PAGE 127 S07.5 09:50	New Approach for Design and Verification of a Wideband Archimedean Spiral Antenna for Radiometric Measurement in Biomedical Applications <i>(Hasan Abufanas, Raid J. Hadi, Carl Sandhagen, Axel Bangert)</i>

S08: Integrated Power Amplifiers

Chair: *Christoph Tzschoppe*

Room G1, Time 11:10 – 12:30, Tuesday 17 March 2015

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PAGE 135 S08.2 11:30	Systematic Characterization of Silicon IMPATT Diode for Monolithic E-Band Amplifier Design <i>(Wogong Zhang, Michael Oehme, Konrad Kosteki, Klaus Matthies, Viktor Stefani, Erich Kasper, Joerg Schulze)</i>
PAGE 139 S08.3 11:50	A 60GHz 24.5dBm Wideband Distributed Active Transformer Power Amplifier on 250nm BiCMOS <i>(Jan Dirk Leufker, Corrado Carta, Frank Ellinger)</i>
PAGE 142 S08.4 12:10	Noise Modelling in LNAs with Negative Feedback Transformer Matching <i>(Christoph Tzschoppe, Alexander Richter, Udo Jörges, Jens Wagner, Frank Ellinger)</i>

S09: Printed Circuit Technology

Chairs: Holger Maune, Bernd Geck

Room G2, Time 11:10 – 12:30, Tuesday 17 March 2015

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S09.1
11:10

Frequency Extension of the Fully Printed Phase Shifter by Paste Composite Optimization

(M. Nikfalazar, Christian Kohler, Daniel Kienemund, Alex Wiens, Y. Zheng, M. Sohrabi, Joachim R. Binder, Rolf Jakoby)

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S09.2
11:30

Temperature Dependence of a Tunable Phase Shifter Based on Inkjet Printing Technology

(Daniel Kienemund, M. Nikfalazar, Christian Kohler, Andreas Friederich, Alex Wiens, Holger Maune, Morten Mikolajek, Joachim R. Binder, Rolf Jakoby)

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S09.3
11:50

Measuring Design-DK and True Permittivity of PCB Materials up to 20GHz

(G. Gold, K. Helmreich)

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S09.4
12:10

A Novel Two-Layer Electronically Controllable Substrate Integrated Waveguide Phase Shifter

(Badar Muneer, Qi Zhu)

S10: Waveguide Components

Chairs: Michael Höft, Volker Ziegler

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PAGE 162 S10.1 14:10	Planar Cross-Polarized Transition to a Circular Waveguide Feed for a 61GHz Dielectric Antenna <i>(Wadim Stein, Maximilian Deckelmann, Andreas Oborovski, Martin Vossiek)</i>
PAGE 166 S10.2 14:30	Low-Loss Millimeter-Wave Propagation in Silicon-Based Suspended Dielectric Image Guide <i>(Jan Hesselbarth)</i>
PAGE 170 S10.3 14:50	Frequency Adjustable Ka Band Cross-Guide Coupler for Space Applications <i>(Enric Miralles, Volker Ziegler, Ulrich Wochner, Michael Zedler, Frank Ellinger)</i>
PAGE 174 S10.4 15:10	A Wideband Differential Microstrip-to-Waveguide Transition at W-Band <i>(Malte Giese, Jan Waldhelm, Arne F. Jacob)</i>

S11 : Radar Systems

Chairs: Alexander Koelpin, Christian Waldschmidt

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PAGE 178 S11.1 15:50	An Optimized Radar System for Tank Level Measurement in Dispersive Bypass Pipes <i>(M. Vogt, M. Gerding, V. Fortoul)</i>
PAGE 182 S11.2 16:10	Sweep Time Variation Algorithm for High Accuracy FMCW Radar Measurements <i>(Steffen Scherr, Serdal Ayhan, Jonas Hofmann, Mario Pauli, Thomas Zwick)</i>
PAGE 186 S11.3 16:30	Estimation of Uncompensated Trajectory Deviations and Image Refocusing for High-Resolution SAR <i>(Ievgen M. Gorovyi, Oleksandr O. Bezvesilniy, Dmytro M. Vavriv)</i>
PAGE 190 S11.4 16:50	Precise and Robust Crane Boom Tip Localization Using a 24GHz Radar Tachymeter <i>(Christoph Reustle, Denys Shmakov, Sven Röhr, Martin Vossiek)</i>
PAGE 194 S11.5 17:10	High-Resolution Long Range SFCW-Radar with Multiplicative Array <i>(M. Nhat Pham, Arne F. Jacob)</i>

S12: Antennas and Arrays

Chairs: Lorenz-Peter Schmidt, Uwe Siart

Room G2, Time 15:50 – 17:30, Tuesday 17 March 2015

PAGE 198 S12.1 15:50	Active Transmitarray Submodule for K/Ka Band Satcom Applications <i>(Tobias Chaloun, Christoph Hillebrand, Christian Waldschmidt, Wolfgang Menzel)</i>
PAGE 202 S12.2 16:10	Broadband Amplitude Tapering for a Linear W-Band Array Antenna for Gaussian Beam-Shaping <i>(Christian Koenen, Uwe Siart, Thomas F. Eibert, Garrard D. Conway, Ulrich Stroth)</i>
PAGE 205 S12.3 16:30	D-Band Digital Phase Shifters for Phased-Array Applications <i>(D. Müller, S. Diebold, S. Reiss, H. Massler, A. Tessmann, A. Leuther, Thomas Zwick, I. Kallfass)</i>
PAGE 209 S12.4 16:50	A 79-GHz LTCC Patch Array Antenna Using a Low-Loss Ceramic Tape <i>(Xin Wang, Andreas Stelzer)</i>
PAGE 213 S12.5 17:10	Design of an Optimized Linear Sparse Antenna Array for a 24GHz Radar Tachymeter <i>(Tatiana Pavlenko, Christoph Reustle, Karsten Thurn, Denys Shmakov, Randolph Ebel, Martin Vossiek)</i>

S13: Radar Modelling and Processing

Chairs: Nils Pohl, Andreas Stelzer

Room G1, Time 08:30 – 10:10, Wednesday 18 March 2015

PAGE 217 S13.1 08:30	A Method for the Analysis of Ramp-Inherent Linearity Distortions in Automotive Radar Applications <i>(Felix Müller, Dirk Steinbuch, Thomas Walter, Robert Weigel)</i>
PAGE 221 S13.2 08:50	A Two-Dimensional Radar Simulator for Level Measurement of Bulk Material in Silos <i>(C. Dahl, Ilona Rolfes, M. Vogt)</i>
PAGE 225 S13.3 09:10	2D Fresnel Diffraction Approach for Wind Turbine Forward Scattering <i>(M.B. Raza, T. Fickenscher)</i>
PAGE 229 S13.4 09:30	A Compressed Sensing Formulation Based on I/Q-Dictionary: Experimental Case Study at Millimeter-Wave Frequencies <i>(Markus Kuhnt, Jochen Moll, Viktor Krozer)</i>
PAGE 233 S13.5 09:50	Ultra-Wideband Compressed Sensing Radar Based on Pseudo Random Binary Sequences <i>(G. Guarin, M. Gardill, Robert Weigel, G. Fischer, D. Kissinger)</i>

S14: System on Chip

Chairs: Thomas Musch

Room G2, Time 08:30 – 10:10, Wednesday 18 March 2015

PAGE 237 S14.1 08:30	Divide-by-8 Phase Detector MMIC for PLL-Based Carrier Recovery in E-Band Communication <i>(T. Messinger, D. Müller, J. Antes, S. Wagner, A. Tessmann, I. Kallfass)</i>
PAGE 241 S14.2 08:50	High Speed Static Frequency Divider Design with 111.6GHz Self-Oscillation Frequency (SOF) in 0.13μm SiGe BiCMOS Technology <i>(U. Ali, M. Bober, A. Thiede, A. Awany, G. Fischer)</i>
PAGE 244 S14.3 09:10	Synchronization Concept for the Characterization of Integrated Circuits with Multi-Gigabit Receivers and a Slow Feedback Channel <i>(Martin Schmidt, Jianxiong Zhang, Thomas Föhn, Markus Grözing, Manfred Berroth)</i>
PAGE 248 S14.4 09:30	Fractional-N PLL Optimization for Highly Linear Wideband Chirp Generation for FMCW Radars <i>(Mohammed El-Shennawy, Niko Joram, Frank Ellinger)</i>
PAGE 252 S14.5 09:50	A Highly Modular 77GHz Multi-Tone FMCW SiGe Radar Concept for Industrial Measurements <i>(Christian Erhart, Steffen Lutz, Hubert Mantz, Thomas Walter, Robert Weigel)</i>

S15 : Microwave Tubes

Chairs: Manfred Thumm, John Jelonnek

Room G3, Time 08:30 – 10:10, Wednesday 18 March 2015

PAGE 256 S15.1 08:30	Low Power Measurements on a Quasi-Optical System of an 1MW TE_{32,9} 170GHz Gyrotron <i>(Markus Losert, Gerd Gantenbein, Jianbo Jin, Andrey Samartsev)</i>
PAGE 260 S15.2 08:50	Magnetron Injection Gun for a 238GHz 2MW Coaxial-Cavity Gyrotron <i>(J. Franck, I.Gr. Pagonakis, K.A. Avramidis, Gerd Gantenbein, S. Illy, M. Thumm, John Jelonnek)</i>
PAGE 264 S15.3 09:10	Interaction Circuit Design and RF Behavior of a 236GHz Gyrotron for DEMO <i>(P. Kalaria, K.A. Avramidis, J. Franck, Gerd Gantenbein, S. Illy, I.Gr. Pagonakis, M. Thumm, John Jelonnek)</i>
PAGE 268 S15.4 09:30	Particle-in-Cell Simulation of Gyro-TWT Using a Metal PBG Circuit <i>(M. Thottappan, P.K. Jain)</i>

S16: Millimeterwave and THz Systems

Chairs: Michael Schlechtweg, Andreas Stöhr

Room G1, Time 10:30 – 11:50, Wednesday 18 March 2015

PAGE 272 S16.1 10:30	Integrated Schottky Diode Detector for THz Spectrometer <i>(Mario Schiselski, Martin Laabs, Niels Neumann, Michael Gensch, Dirk Plettemeier)</i>
PAGE 276 S16.2 10:50	Planar Bias-Tee Circuit Using Single Coupled-Line Approach for 71–76GHz Photonic Transmitters <i>(Besher Khani, Vitaly Rymanov, Ivan Flammia, Markus Miech, Andreas Stöhr)</i>
PAGE 280 S16.3 11:10	Design of a 32 Element Rotman Lens at 220GHz with 20GHz Bandwidth <i>(Dirk Nüßler)</i>
PAGE 284 S16.4 11:30	A Multi-Antenna Technique for mm-Wave Communications with Large Constellations and Strongly Nonlinear Amplifiers <i>(Rui Dinis, Paulo Montezuma, Pedro Bento, Marco Gomes, Vitor Silva)</i>

S17: MMIC Technology

Chairs: Wolfgang Heinrich, Renato Negra

Room G2, Time 10:30 – 11:50, Wednesday 18 March 2015

PAGE 288 S17.1 10:30	Comparison of Inductor Types for Phase Noise Optimized Oscillators in SiGe at 34GHz <i>(S. Thomas, C. Bredendiek, N. Pohl)</i>
PAGE 292 S17.2 10:50	A Tunable Marchand Balun at K Band in Silicon Germanium (SiGe) Technology <i>(Luciano Boglione, Joel Goodman)</i>
PAGE 296 S17.3 11:10	A Highly Linear Broadband LNA for TV White Spaces and Cognitive Radio Applications <i>(Gabor Varga, Carl Philip Heising, Arun Ashok, Iyappan Subbiah, Moritz Schrey, Stefan Heinen)</i>
PAGE 299 S17.4 11:30	Graphene-Based MMIC Process Development and RF Passives Design <i>(Abdelrahman Askar, Ahmed Hamed, Mohamed Saeed, Abhay A. Sagade, Daniel Neumaier, Renato Negra)</i>

PS-Mo : Interactive Poster Session Monday

Chairs: Stefan Lindner, Sarah Linz

Room Foyer, Time 13:00 – 16:00, Monday 16 March 2015

PAGE 303 PS-Mo.1	An Active UHF RFID Transponder for Fawn Saving During Pasture Mowing <i>(Markus Lehner, Michael Eberhardt, Alois Ascher, Erwin Biebl)</i>
PAGE 307 PS-Mo.2	Enhancing Dynamic Range and Accuracy of Load-Pull Measurements by Using Prematched Transistors <i>(Erhan Ersoy, Olof Bengtsson, Wolfgang Heinrich)</i>
PAGE 311 PS-Mo.3	Permittivity Sensor Based on 60GHz Patch Antenna <i>(S. Vehring, S. Guha, F.I. Jamal, D. Kissinger, C. Meliani)</i>
PAGE 315 PS-Mo.4	Detection of Very Small Impurity Particles in High-Quality Granulated Sugar <i>(Tobias Albers, Markus Peichl, Stephan Dill)</i>
PAGE 319 PS-Mo.5	Low-Loss Mesh-Type Coplanar Waveguides for High-Current, High-Frequency CMOS Circuits <i>(Muh-Dey Wei, Renato Negra)</i>
PAGE 323 PS-Mo.6	Absolute Radiometric Calibration of the Novel DLR “Kalibri” Transponder <i>(Daniel Rudolf, Sebastian Raab, Björn J. Döring, Matthias Jirousek, Jens Reimann, Marco Schwerdt)</i>
PAGE 327 PS-Mo.7	Multiple-Port SIW Power Divider Utilizing Cascade-Connected Crisscross Directional Couplers <i>(Koji Takahashi, Tadashi Kawai, Mitsuyoshi Kishihara, Isao Ohta, Akira Enokihara)</i>
PAGE 331 PS-Mo.8	Evaluation and Optimization of Active Signal Canceling for Coexistence Management in Vehicular Multistandard Transceivers <i>(Adrian Posselt, Marcel Welpot, Christian Böhm, Oliver Klemp, Bernd Geck)</i>
PAGE 335 PS-Mo.9	Enhanced Gain Bandwidth and Loss Compensated Cascaded Single-Stage CMOS Distributed Amplifier <i>(Mohsin Tarar, Muh-Dey Wei, Marc Reckmann, Renato Negra)</i>

PS-Tu : Interactive Poster Session Tuesday

Chairs: Sarah Linz, Stefan Lindner

Room Foyer, Time 10:10 – 13:30, Tuesday 17 March 2015

PS-Tu.1	Lumped Equivalent Circuit Modeling of Dual Band PIFA <i>(Jawad Yousaf, Wansoo Nah)</i>
PAGE 343 PS-Tu.2	A Miniaturized Very Low-Power Vector Modulated CMOS Phase Shifter for Wireless Receivers <i>(Tina Kastenhuber, Juergen Roeber, Andreas Baenisch, G. Fischer, Robert Weigel)</i>
PAGE 347 PS-Tu.3	Optoelectronic Comb Oscillators with FBG Based Frequency Control <i>(Krzysztof Madziar, Bogdan Galwas, Tomasz Osuch)</i>
PAGE 351 PS-Tu.4	Locating Utility Pipes Using m-Sequence Ground Penetrating Radar <i>(Sebastian Brueckner, Daniel Seyfried, Joerg Schoebel)</i>
PAGE 355 PS-Tu.5	Compact and Easy to Manufacture Dual Mode Feed Horn with Ultra-Low Backlobes <i>(Jeffrey Pawlan)</i>
PAGE 359 PS-Tu.6	Low Power Fundamental VCO Design in D-Band Using 0.13μm SiGe BiCMOS Technology <i>(U. Ali, G. Fischer, A. Thiede)</i>
PAGE 363 PS-Tu.7	Geometrical Tolerance of Optical Fiber and Laser Diode for Passive Alignment Using LTCC Technology <i>(Sumy Mathew, Steffen Spira, Ralf Stephan, Tilo Welker, Nam Gutzeit, Jens Müller, Matthias A. Hein)</i>
PAGE 367 PS-Tu.9	Multiple Rhombus Monopole Antenna <i>(Thomas Landeau, Onofrio Losito, Giuseppe Palma, Vincenza Portosi, Alain Jouanneaux, Francesco Prudenzeno)</i>

FA7.1 : Meeting VDE/ITG Specialist Group FA7.1 on Antennas

Chair: Dirk Heberling

Room G3, Time 11:10 – 12:30, Tuesday 17 March 2015

PAGE 371
FA7.1.2
11:30

Improving Bandwidth of Planar Microstrip Patch Array Antennas

(Shenarior Ezhil Valavan, Peter Knott)

PAGE 374
FA7.1.3
11:50

Influence of the Vehicle Environment on the Radiation Characteristics of Vehicle Roof Antennas

(Marina S.L. Mocker, Shu Liu, Vicente A. Fuertes, Hicham Tazi, Thomas F. Eibert)

PAGE 378
FA7.1.4
12:10

Active Re-Configurable Multibeam Reflector Antenna for Satellite Application

(Dennis Schobert, Enrico Reiche, Christian Hartwanger, Michael Schneider, Helmut Wolf)

SP1 : Special Session — DFG Research Unit ‘BATS’

Chairs: Joern Thielecke, Simon Ripperger

Room G2, Time 09:00 – 13:15, Monday 16 March 2015

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SP1.7
11:30

System Design for Encounter Detection of Distributed Wireless Sensors

(Martin Hierold, Simon Ripperger, Frieder Mayer, Robert Weigel, Alexander Koelpin)

SP2 : Special Session — IMB5 Integration of Broadcast in LTE

Chairs: Swen Petersen, Thomas Heyn

Room G3, Time 14:00 – 15:40, Monday 16 March 2015

No papers from this session for publication

SP3 : Special Session — MIKON

Chairs: Michal Mrozowski, Martin Vossiek

Room G2, Time 14:10 – 15:30, Tuesday 17 March 2015

PAGE 386
SP3.1
14:10

Compact Multiport System for Broadband Measurement of S-Parameters

(Kamil Staszek, Slawomir Gruszczynski, Krzysztof Wincza)

PAGE 390
SP3.2
14:30

Efficient Behavioral Model Extraction of Nonlinear Active Devices Using Adaptive Sampling with Compact Nonlinearity Measure

(Paweł Barmuta, Francesco Ferranti, Arkadiusz Lewandowski, Dominique Schreurs)

PAGE 394
SP3.3
14:50

The Convergence of Modal Series for Waveguide Green Functions in the Analysis of Shielded Microwave Structures by the SIE-MoM Approach

(Bartosz Bieda, Piotr Słobodzian)

SP4: Special Session — DFG Research Unit ‘MUSIK’

Chairs: Matthias Hein, Amelie Hagelauer

Room G4, Time 08:30 – 10:15, Wednesday 18 March 2015

PAGE 398 SP4.1 08:30	RF-MEMS-Platform Based on Silicon-Ceramic-Composite-Substrates <i>(M. Fischer, S. Gropp, Jacek Nowak, Ralf Sommer, M. Hoffmann, Jens Müller)</i>
PAGE 402 SP4.2 08:45	Determination of Temperature Coefficients of Thin Film Materials in RF BAW Components <i>(A. Tag, Robert Weigel, A. Hagelauer, B. Bader, M. Pitschi, K. Wagner)</i>
PAGE 406 SP4.3 09:00	Multi-Technology Design of an Integrated MEMS-Based RF Oscillator Using a Novel Silicon-Ceramic Compound Substrate <i>(D. Podoskin, K. Brückner, M. Fischer, S. Gropp, D. Krauß, Jacek Nowak, M. Hoffmann, Jens Müller, Ralf Sommer, Matthias A. Hein)</i>
PAGE 410 SP4.4 09:15	Modeling of BAW Filters for System Level Simulation <i>(D. Karolewski, C. Schäffel, A. Tag, V. Silva Cortes, A. Hagelauer, G. Fischer)</i>
PAGE 414 SP4.5 09:30	Electrostatic Parallel-Plate MEMS Switch on Silicon-Ceramic-Composite-Substrates <i>(S. Gropp, A. Frank, M. Fischer, C. Schäffel, Jens Müller, M. Hoffmann)</i>
PAGE 418 SP4.6 09:45	Systematic Design Strategies for Multi-Physical RF Systems Using the Example of MEMS Oscillator <i>(Jacek Nowak, Ralf Sommer)</i>
PAGE 422 SP4.7 10:00	Shunt MEMS Switch Requirements for Tunable Matching Network at 1.9GHz in Composite Substrates <i>(V. Silva Cortes, G. Fischer)</i>

SP5: Project Meeting DFG Priority Programme ‘Wireless 100 Gb/s and Beyond’

Chair: Rolf Kraemer

Room G2, Time 13:30 – 16:30, Wednesday 18 March 2015
