Contents

Bragg Grating Solitons in Semilinear Couplers with Dispersive Reflectivity 15
Dynamic Frequency Response of Charged Chiral Rods 18
Segmentation of OPG Images in Studying Jawbone Diseases 21
An Improved Segmentation of Brain Tumor, Edema and Necrosis 25
Bone Marrow Analysis in Multi-contrast MR Images 29
Stochastic Models of Electrodynamics and Numerical Models 33
Stochastic Description of Wireless Channel for Cognitive Radio 38
Statistical Evaluation of Diffusion-weighted Imaging of the Human Tissues 43
Software for Partial Discharge and Localization 48
Automatic Detection and Segmentation of the Tumor Tissue 53
Study of the Influence of Magnetic Fields on Plants Tissues 57
Combined X-ray Diagnostics of Heterogeneous Biological Material 61
Miniature Planar Triple Passband Filter Using Embedded Resonators 66
Design of Planar Single-section and Cascaded Directional Filters 70
Wideband Planar Filter Using Signal-interference Techniques 76
Planar Bandpass Filter Design Using Transversal Filtering 80
Performance of MIMO RADAR Using Two-way MUSIC 84
On Multi-antenna Systems for Wireless Transmission Mediums 88
On the Multihop Relays with Multiple Antennas for LTE-A 95
Channel Capacity Improvement Dependency of the Number of Receiving Antennas for Aeronautical MIMO Systems 101
MIMO SC-FDE Transmission Techniques with Channel Estimation and High-order Modulations 105
Single-stream Communication Using Orthogonal Signal Division Multiplexing with Multiple Antennas 113
General Ray Method for Solution of Dirichlet Boundary Value Problem for Helmholtz Equations 117
High Resolvability of Electrical Tomography Based on General Ray Method 121
Fast Numerical Solution of Dirichlet Boundary Problem for Laplace Equation in 3D Domains with Complicated Geometry 124
Electromagnetic Eigen-field Characteristics of Acousto-optic Waveguides with Transverse SAW 129
Permittivity Determination of Multi-sectional Diaphragm with Metamaterial Layers in Rectangular Waveguide 135
Multi Bands Reconfigurable Antenna for Mobile Phone Application 140
Reconfigurable Antenna with Tri-polarization Capability 143
Analysis of Phase Range Distribution of Different Reflectarray Elements on Polycrystalline Silicon Cell 147
Photon Generation from Quantum Vacuum Using a Josephson Metamaterial 151
Filtration Properties of a System for the Measurement of Air Ions 154
A Comparison of the Dynamic Range of FDNR Building Blocks 159

Analysis of Leap-frog Filter in the Programme NAF 163
Application of the Level Set Method in MR-EIT Inverse Problems 167
Influence of Initial Conditions on Conductivity Calculation via the MR-EIT Inverse Problem 171
EM Field and Biological Systems Interactions 175
Electromagnetic Modeling and Simulation for Interconnect Structures Based on Volume-surface Integral Equations 179
Refractive Index Profiling of Metal-diffused Planar Waveguides Using a Differential Near-field Optical Microscopy 183
Interference Cancellation and DOA Estimation by Generalized Receiver Applying LMS and MUSIC Algorithms 187
Rain Attenuation Prediction Using Frequency Scaling Technique at Tropical Region for Terrestrial Link 191
New Indoor Propagation Channel Model for Location Purposes 195
Access Point Selection for WLAN Indoor Localization Systems Using RF Walk Test Data 199
Evaluation of Singular Potential Integrals with Linear Source Distribution 203
A Multi-arm Coupled-fed Monopole Antenna for WWAN Mobile Systems 208
Design of Two-layer Hemispherical Dielectric Resonator Antenna 213
Use of Transparent Dielectric Resonator Antenna as a Light Cover 216
A Compact Loop Antenna with Parasitic Split Ring for UHF RFID Application 219
Compact Size Antenna for Car FM Radio 223
Gain Enhancement of Circularly Polarized Slender Antenna Using a Wider Helical Element 225
Resonantly Confined Modes in Optical Fibers with Circularly Aligned High-index Rods 228
Terahertz Metamaterial Absorbers for Sensing and Imaging 232
Operational Slow Line Underpinned by a 1D Metamaterial 236
An Optimized Design of Cylindrical Acoustic Cloak with Two-phase Isotropic Layered Composites 241
3D Active Imaging Models and Systems to See through Adverse Conditions: Application to the Surveillance of an Aircraft Environment 246
A Multi-scale SAR Segmentation Based on Hierarchical Merging 251
New SAW Odor and Gas Sensor for Sensor Network Installed in Smart House 255
Checking of Combustion Chamber of Liquid Rocket Using ECT with AMR Sensor 261
Prediction of Radar Reflectivity along Radio Link 264
Time Domain Transient Analysis of Electromagnetic Field Radiation for Phased Periodic Array Antennas Applications 268
Multiphysics Analysis for Electromagnetic Radiation by Elastic Media 272
Input Impedance Measurement for Balanced Antenna by S-parameter Method 276
Near-field Magnetic Probe Method Predicting Far-field Measurements — Correlation of Dipole Boresight Measurements with Anechoic Range Model 280
Effects of Residual Stress on Assembled SAW Strain Sensors 286
Design of Second-order Inductive-coupled Resonator-based Bandpass Filter with Controllable Multiple Transmission Zeros 291
Design of Dual-band Coupling Matrix-based Matching Network 295
Design and Characterization of Cryogenic Wideband LNA Using WIN 0.15 µm GaAs pHEMT Process 300
Evaluation of Nonlinear Effect Impact on Optical Signal Transmission over Combined WDM System 303
Performance Improvement of Spectrum-sliced Passive Optical Network 308
Design of an Optimal Benes WEX Architecture Based on Sufficient Permutations 312
Analysis of Anisotropic Diffraction in Volume Gratings Using Liquid Crystal Composites 317

Temperature Dependable Holographic Memory Using Holographic Polymer-dispersed Liquid Crystal . . 322
Investigation on Band Gap Characteristics in a Two-dimensional Photonic Crystal with Honeycomb Structure . . . 326
Study on Characteristics of the Photonic Crystal Fibers with Three Zero-dispersion Points . . . 331
Investigation on Slow Light of Uniform Fiber Bragg Gratings . . . 335
Optical Fiber Nonlinear Coefficient Measurements Using FWM . . . 339
Design of Quantum Secure Communication System Based on FPGA . . . 342
Numerical Study of Effective Plasma Frequency for a Plasma Photonic Crystal in the Presence of Magnetic Field . . . 347
The Studies of Enhanced Optical Single Sideband Modulation Using by Laser's Cavity Mode and Nonlinear Optical Fiber Effect . . . 352
A Study of Enhanced Optical Single Sideband Modulation Based on Scattering Effects and Semiconductor Laser Injection Locked Technology . . . 356
Development of Optical Wave Microphone Measuring Sound Waves with No Diaphragm . . . 359
Visualization of Electric Discharge Sound Fields in Atmospheric Pressure Plasma Using Fraunhofer Diffraction . . . 364
An Overview of Metamaterials in Biomedical Applications . . . 368
Interfacial Properties of Modified Natural Polysaccharide Carbohydrate Surfactants . . . 372
Indoor Broadband Spectrum Survey Measurements for the Improvement of Wireless Systems . . . 376
Measurement of Inhomogeneity in the B_0 and B_1 Fields Performed via the Spin-Echo and Gradient-Echo MR Imaging Techniques . . . 381
Processing of Magnetic Resonance Images of Adipose Tissues . . . 385
The Effect of Extremely Low Frequency (ELF) Pulsed Electromagnetic Field (PEMF) on Bacteria *Staphylococcus Aureus* . . . 388
The Effects of Visible Light Radiation (400–500 nm) on Enzymatic Activity of Collagenase . . . 392
The Comparison of the Contrasts of Magnetic Resonance Images of Plants . . . 397
Electromagnetic Structures and Inertias of Particles including the Higgs Boson . . . 401
A Low Phase Noise CMOS VCO for the Millimeter Wave Application . . . 406
The Influence of an Electromagnetic Wave on the Acoustoelectric Current in a Rectangular Quantum Wire with an Infinite Potential . . . 410
Influence of a Strong Electromagnetic Wave (Laser Radiation) on the Hall Coefficient in Doped Semiconductor Superlattices with an In-plane Magnetic Field . . . 416
Effects of Tuning Condition, Head Size and Position on the SAR of a MRI Dual-row Transmit Array at 400 MHz . . . 422
Three Dimensional Radar Imaging by Using Spherical Near Field Range . . . 427
Study of DNA Fingerprint of Pine Wood Nematode Based on Terahertz Spectroscopic Technology at 0–10 THz . . . 430
Terahertz Functional Tissue Imaging . . . 434
Characterization of High Intense Pulse Amplified by Yb-doped Fiber Chirped Pulse Amplification System for THz Wave Generation . . . 438
Reflection and Transmission of Electromagnetic Waves from the Boundaries of Anisotropic Magneto Dielectric Plate in the Waveguide . . . 442
Wiener-Hopf Method for Problems of Diffraction of Asymmetric Waves by a Circular Cylinder . . . 446
Design and Implementation of Low Phase Noise Oscillator Based on Film Bulk Acoustic Resonator . . . 450
DOA Estimation via Phase Measurement . . . 453
Universal Properties of Electromagnetic Pulses . . . 458

Universal Properties of Electromagnetic Beams 464
Wide Band Open Ended Air Gap RLSA Antenna at 26 GHz Frequency Band 470
Design of Wideband Monopole Antennas Using a Simple Tapered Feed Line and Slot 474
A Grounded CPW Transparent UWB Antenna for UHF and Microwave Frequency Application 479
A Printed Dipole Antenna with U-line Matched for Dual-band WiFi Applications 482
Compact Dual-band Monopole Antenna for 2.4/3.5 GHz WiMAX Applications 487
Dual-band Transparent Antenna for ISM Band Applications 490
Developing Alternatives of Small Monopole Antenna Design for Achieving 4G-LTE Requirements in a Limited Antenna Size 494
Investigation on CPW Koch Antenna Durability for Microwave Imaging 498
P-shape Monopole Antenna Design for WBAN Application 502
Can There Be WDM Solitons in Fibers? 506
Investigation of Two Bidirectional C + L Band Fiber Amplifiers with Pumping Sharing and Wavelength Reused Mechanisms 510
Optical-circulator-based Single-frequency Fiber Laser Using Absorber and Subring Cavity in the Linear Cavity 515
Generation of Terahertz, Microwave, Radio Waves from a Laser-excited Wire Antenna 519
Arc-induced Long Period Fiber Gratings Based on Flat-clad Fibers 525
Transmitted Characterization of 625 Mbps/15 GHz ROF Signal Using a Direct Modulated Baseband Signal and Twice Optical Carrier Suppression Modulation 528
A Fault-tolerant Mechanism on Star-ring Based Ethernet Passive Optical Networks 532
A New Mechanism to Improve Bandwidth Utilization and QoS of IPTV in Ethernet Passive Optical Network 537
The Influence of the Electromagnetic Wave on the Nonlinear Quantum Acoustoelectric Current in a Quantum Well 541
Dyson Equations for Dense Random Media Composed of Dielectric or Metallic Nanoscale Scatterers 548
Analysis of Parameter Sensitivity of Electromagnetic Railgun System 552
Analysis of Approaches for Modeling the Contact Resistance on Conductor Interface by the Finite Element Method 556
Analysis of the Electric Field Environment around Railway Platform 561
The Multi-component Signal Model and Learning Algorithm of Blind Source Separation 565
Near-weightlessness Movements in Electromagnetic Fields 570
Focusing on the Moiré Effect 575
Response of Multilayer Materials to Electromagnetic Waves 580
Analysis of Distortion Factor of Three Phase Linear Synchronous Motor 584
Simulation of 3-D SAR Imaging Based Outdoor RCS Measurement Technique 589
GRECO Based Spotlight SAR Imaging Simulation Method 594
Bridgeless SEPIC-derived LED Driver without Electrolytic Capacitor for Multistring Application 599
Investigation of Irregularities Induced from Medium-scale Traveling Ionospheric Disturbances Using Global Positioning System and Digisonde 604
A Study of Equatorial Ionospheric Irregularities over the Indian-Ocean Sector during Solar Maximum by Using the Global Positioning System 608
Satellite Monitoring for Elasto-plastic Behavior of Plate around Epicenter in a Process Tsunami Earthquakes 612
A Geomagnetic Polar Drifting Path Evolution on the Geographic Earth Surface 616

Electromagnetic Process at a Crustal Fault Formation for Tsunami Earthquake on the Planet Earth . . 619
Scattering of Light from Rough Surfaces, the Limits of Validity of Geometric Optics Approximation Method . . . 623
Modulation in the Spectral Degrees of Polarization of Stochastic Electromagnetic Higher-order Bessel-Gauss Pulsed Beams . . . 626
Weighted Multi-frequency Imaging of Thin, Crack-like Electromagnetic Inhomogeneities . . . 631
Estimating Properties of Subsurface Layers from GPR Spectral Attributes . . . 636
Identification of Subsurface Thin Layers Using Cepstrum of GPR Data . . . 640
Design and Implementation of Bandgap References Voltage Circuit for SOC Module Applications . . . 644
Spatial Interpolation for Mapping Geoclimatic Factor K in South Africa . . . 648
Non-parametric and Parametric Modelling and Characterization of the Effective Earth Radius Factor for South Africa . . . 653
A 60 GHz Marchand Balun with Floating Ground Centre-tap in CMOS Technology . . . 660
Compact UWB Monopole Antenna with Tapered Ground Plane . . . 663
The Effects of Low Power Microwaves at 500 MHz and 900 MHz on Yeast Cells Growth . . . 667
Design of 4 GHz Multiplier Based on Sigma-Delta Modulation in a 0.18-µm CMOS Technology . . . 671
Effect of Low-power Microwave Radiation on Seed Growth Rate . . . 676
Additional Efficiency Enhanced for DL-ARC Triple-junction GaAs/Ge Solar Cells Based on Indium Nanoparticles Surface Plasmon Light Scattering . . . 680
Analysis and Construction of Output Capacitance Filter for High Power LLC Resonant Converter . . . 684
Stable Adaptive Signal Generation in Current Based MRAS Induction Motor Sensorless Speed Control 689
Comparison of DTC and Sliding Mode Control of IM Drive . . . 693
Design and Implementation of a Variable-frequency Multiphase VRM with Optimized Phase-reduction Control . . . 697
An Adaptive Current-sharing Control Technology for Multi Power Module with Hot Swapping . . . 702
Implementation and Study of Super-capacitor Cell Power Management System . . . 705
Design and Implementation of an LED Switching Regulator Using Inverse Buck Topology . . . 709
Efficient Solutions of Volume Integral Equations with Inhomogeneous Materials . . . 713
Electromagnetic Scattering from Aggregates Embedded in Absorbing Media . . . 717
A New Parallel Version of the DDSCAT Code for Electromagnetic Scattering from Big Targets . . . 722
Analysis of Electromagnetic Scattering from Absorptive Dielectric Rough Surfaces with Underneath Target . . . 727
Investigating the Radar Returns of a Wind Turbine . . . 730
Tapered Fiber Mach-Zehnder Interferometer for Liquid Level Sensing . . . 734
Reflection and Transmission Characteristics of Lattice Grid with Lossy Clad for Optical CT . . . 737
Reconstruction of Dielectric Objects by Solving Volume Integral Equations with Tetrahedral Discretization . . . 743
Low SAR, Compact and Multiband Antenna . . . 748
Creeping Wave Antenna Design and Application for On-body Surface Communication . . . 752
Compact Folded Meander PIFA Antennas in MedRadio Bands . . . 756
Metamaterial Loaded Wideband Patch Antenna . . . 760
Wideband Small Loop-monopole HF Transmitting Antenna with Implications for Maxwell's Equations and the Chu Criterion . . . 764
Performance Characteristics of Loop Antennas above a Ground Plane of Finite Extent . . . 769
Design and Analysis of a Stripline Archimedean Snail Antenna . . . 775

Experimental Verification of the Suppression of Crosstalk between Bended Parallel Microstrips via Designer Surface Plasmon Polaritons 780
A New Proof on Boundary Conditions in Electromagnetic Theory 783
Design of Ultra Low-power Voltage Controlled Oscillator in 0.18-μm CMOS Technology 787
Road-vehicle Cooperation for Lateral Guidance 791
A Compact Wilkinson Power Divider Utilizing Coupled Lines for Unequal Power Division and Equal Port Impedance 796
A New Lowpass-to-broadband Synthesis Method which Preserves DC Connection 800
Contactless Power Transmission Track with Core Array Structure Unit for Mobile Apparatuses 808
Improved Circularly Polarized Bandwidth in Dielectric Resonator Antenna for L-band Satellite Application 813
Real Time Parallel PSO and CFO for Adaptive Beam-forming Applications 816
Design of a Novel Dual-band Microstrip Patch Antenna for WLAN/WiMAX Applications Using Complementary Split Ring Resonators and Partially Defected Ground Structure 821
Mutual Coupling Effects on the Linear Microstrip Array Self-impedance 826
A Compact UHF Antenna for Handheld RFID Reader 830
Dual-band Slot Antenna Using CPW Feed Line and Metasurface 833
Loaded Circular Patch Rectangular Slit Ultra-wideband (UWB) Microstrip Antenna 836
Printed Modified Bow-tie Dipole Antenna with Band-notch Structure 841
Printed Dual-polarization Broadband Directional Antenna 845
A Y-shaped Microstrip-line-fed Wide-slot Antenna with Band-controlled for Multiband Applications 848
Wide Band Frequency Control of Circularly Polarized Patch Antenna with Movable Dielectric 852
Crosstalk Modeling and Analysis of Through-Silicon-Via Connection in 3D Integration 857
Effect of Electromagnetic Interference (EMI) on the DC Shift of NMOSFET Current-mirror 862
Effect of Electromagnetic Interference (EMI) on the DC Shift of NMOSFET Current Mirror with Capacitor Between Mirror Node and Ground 868
Behavioral Modeling of a 12-bit 500-MS/s Multi-stage ADC 872
The Impact of USB 3.0 Module on Wireless Communication with Improved Solution for EMI Problem of High Speed Connectors 877
Verification Analysis of Electromagnetic Coupling between Display Module and Antenna of Mobile Devices for Wireless Communications 882
Resonant Capability of Multilayer Spheroidal Nanoparticles as Plasmonic Nanoantennas 886
Electromagnetic Equations in Curved Octonion Compounding Spaces 890
Design of Three-coupled Finline Bandpass Filter Using Full Wave Analysis 895
Perturbation Influence Analysis on the RCS of Dynamic Targets 900
Efficient Characterization of Fabry-Perot Resonator Antennas 905
Transparent Antenna Design for Wireless Access Point Application 910
Design of a Programmable Low-pass Filter for UHF RFID ZIF Receivers 914
Experimental Evaluation of Cytotoxicity Effects in Cancer and Normal Cells Exposed to Far Infrared Radiation 919
The Effect of Pulse Parameters and Medium Information on the Temporal Coherence Length of a Partially Coherent Pulse on Scattering 923
Analysis of Transmission Characteristics and Multiple Resonances in Plasmonic Gratings Coated with Homogeneous Dielectrics 927
The Design and Implementation of a MISO Fuzzy Logic Controller Based on CPLD 932

Mobile Mouse Pad 936
An ECG Signal Enhancement Based on Improved EMD 940
A Rehabilitation Device for the Patients of Carpal Tunnel Syndrome 944
Estimation of Rain Attenuation at C, Ka, Ku and V Bands for Satellite Links in South Africa 948
Computation of Rain Attenuation through Scattering at Microwave and Millimeter Bands in South Africa 959
Six-port Based Wave Correlator with Application to Micro-displacement Measurement 972
Uncertainty in Waveguide Vector Network Analyzer Measurements in the Frequency Range of D-band (110 GHz to 170 GHz) 976
The Progress of Unmanned Aerial Vehicle Synthetic Aperture Radar Development for Environmental Monitoring 983
Development of an Integrated Velocity Compensation Timing and Control Unit for SAR 987
Design and Development of a Sidelooking Microstrip Patch Antenna for Unmanned Aerial Vehicle Synthetic Aperture Antenna 991
High Speed AD DA for Synthetic Aperture Radar 994
Realization of Interpolation-free Fast SAR Range-Doppler Algorithm Using Parallel Processing on GPU 998
Performance Analysis of DPCA Based SAR Moving Target Detection 1003
Microstrip Slot Antenna for Mobile Base Station 1007
Resonance Absorption in Multilayered Bi-gratings 1011
Applications of the High-order Method in Dielectric Material 1016
Assessment of Decoupling between MRI Array Elements at 300 MHz 1020
Circularly Polarized Patch Antenna Based on Chiral Metamaterial 1025
Simulation of the Noise Induced by Corona Discharges on a Ground VHF Antenna 1028
Novel Design of Site Source for Radiation and Conduction Emission Test 1033
The Analysis of Antenna Performance due to PCB Grounding Effect from the EMC Bead Device 1036
Design, Analysis and Implementation of RF/MMW Passive Circuits for Combining Yagi Antennas Using Mixed-mode $\boldsymbol{S}$-parameters Concept 1040
A Low Cost Elliptical Dipole Antenna Array for 60 GHz Applications 1044
Reconfigurable Monopole Antenna for WLAN/WiMAX Applications 1048
RF Transmit Performance Comparison for Several MRI Head Arrays at 300 MHz 1052
Pulse Train Distributed Magnetic Field Generated from High Strength Concrete Using Magnetized Olivine Stone Aggregate 1057
Arousal Effect of Physiological Magnetic Stimulation on Car Driver's Pit of Stomach Evaluated with Electroencephalogram Using Driving Simulator 1061
Speed-feedback, Direct-drive Control of a Low-speed Transverse Flux-type Motor with Large Number of Poles for Ship Propulsion 1066
A 2.4 GHz Array Combination High-power Amplifier 1071
Design and Optimization of Carrier Suppression Circuit for UHF RFID Reader Applications 1075
Implementation of a Compact RF Module by Analysis and Fabrication for Organic Substrate with Embedded Passives 1080
Propagation Characteristics of the Meandered Defected Ground Structure 1084
Wideband Leveling Amplifier Design Using 0.18 µm CMOS Process 1088
FPGA Implementation and Verification of Reed-Solomon Code in SDR System 1091
Design of a Bandwidth-enhanced Ultra Thin Metamaterial Absorber 1097

Investigation of Parasitic Effects Induced by the Ground on LTCC Passive Components 1102
Microwave Optoelectronic Oscilator for Distribuited Receivers Operating Remotely 1107
LTE Mixer Array of 0.5 W High Output Power 1110
Design of a Highly Linear Low-noise Amplifier with Noise and Distortion Cancelation 1115
A Tunable Dual-band Bandpass Filter with Two Independently Tunable Passbands 1121
A Constant Absolute Bandwidth Tunable Combline Bandpass Filter 1126
Digital Predistortion for RF Power Amplifiers Based on Enhanced Orthonormal Hermite Polynomial Basis Neural Network 1130
Design of Parallel FFT Based on FPGA in the Field of Software Radio 1134
A Correction Term for Maxwell's Equations Transformed between Galilean Reference Systems (Part I) 1138
A Correction Term for Maxwell's Equations Transformed between Galilean Reference Systems (Part II) 1142
A Large Tuning Range Ring VCO in 180 nm CMOS 1147
A Planar MIMO Antenna for Mobile Phones 1150
CPW-coupled-fed Circular UWB Monopole Antenna 1153
A Compact Branch-line Directional Coupler Using Lumped-element CRLH TLs 1157
Direction of Arrival Estimation Based on Maximum Likelihood Criteria Using Gravitational Search Algorithm 1162
Experimental Studies on Microwave Gunn Oscillator Based Modulator-demodulator Systems with Chaotic Modulating Signals 1168
Effects of Nonlinear Bias Tuning of X-band Gunn Oscillator Based Frequency Modulators 1173
Experimental Studies on the Nonlinear Interaction between a Chaotic Signal and a Periodic Signal at Microwave Frequency Range 1177
FPGA Implementation of LDPC Encoder with Approximate Lower Triangular Matrix 1181
A Novel Function Tuner with Microstrip Circuit for Slot Patch Antenna 1187
A Novel Design of Reconfigurable Annular Slot Active Patch Antenna 1191
A Surface-potential Based Compact Model of Gate Capacitance in GaN HEMTs 1195
Electromagnetic Forces in the Curved Octonion Spaces 1199
Research of Improved Matching Doherty Solid State Power Amplifier 1204
Research of Doherty Solid State Power Amplifier with Improved Bias Matching 1208
Analysis and Design of the Microstrip Matching for Doherty Amplifier 1211
A Novel Oscillator Based on Film Bulk Acoustic Resonator 1214
Analysis and Optimization of the Linearity and Efficiency for Doherty Amplifier 1217
Advances in the Theory of the Circular Waveguide with an Azimuthally Magnetized Ferrite Cylinder and a Dielectric Toroid 1220
Evaluation of Correlation Detector for Ship Detection with HF Radar 1225
A Planar PIM-generator for Antenna PIM Test Setup 1229
Proposal of Technical Measures for a Partial Discharge Detection System Based on Real Measurement 1233
Author Index 1237