

2007 International Symposium on Microwave, Antenna, Propagation and EMC Technologies for Wireless Communications

**Hangzhou, China
14-17 August 2007**

Volume 1 of 3



**IEEE Catalog Number:
ISBN 10:
ISBN 13:**

**CFP07611-PRT
1-4244-1044-4
978-1-4244-1044-6**

CONTENTS

Keynote Address

The Presence and Future of Information Network	K1-1
Zhang, Hongke	
Reconfigurable Multifunction Antennas: Next Steps for the Future	K2-1
J. T. Bernhard	
Impact of Nanotechnology on Wireless Communications	K3-1
Er-Ping Li	
Ultra-Wideband Radio: Propagation Channels and their Impact on System Design	K4-1
Andreas Molisch	

Systems and Services

A Dynamic Resource Allocation Scheme Based on Soft Frequency Reuse for OFDMA Systems	1
Fan,Bin Qian,Yu Zheng,Kan Wang,Wenbo	
A Hierarchical Selective CQI Feedback Scheme for 3GPP Long-Term Evolution System	5
Su,Jian Fan,Bin Zheng,Kan Wang,Wenbo	
A Joint Unitary Precoding and Scheduling Algorithm for MIMO-OFDM System with Limited Feedback.....	9
Chen,Feng Zhang,Xing Zheng,Kan Wang,Wenbo	
A Low-Complexity Parallel Interference Cancellation for DS/CDMA Systems over Rayleigh Fading Channel	13
Xu,Guoxiong Wei,Pingjun Ma,Changzheng	
A multiple antennas Rake receiver with equalization in timedomain for UWB communications	17
Li,Ping'an Chen,Ting Liu,Kewen	
A New Implementation of Synchronous FM	22
Yang,Fei Cai,Chaoshi Zhang,Qifeng	
A New Transmission Scheme for Railway Based On OFDM-SFN	27
Gao,Aiqin Yao,Dongping	
A Non-cooperative Power Control Game Considering Utilization and Fairness in Cognitive Radio Network	31
Zhu,Yajun Wang,Wei Peng,Tao Wang,Wenbo	
A Novel Channel Estimation with Small Delay Value Pilot for CDD Transmission	35
Long,Hang Zhao,Hui Su,Jian Wang,Wenbo	

A Novel Design Technique for Artificial Magnetic Conductor's in TE-Mode Incidence Wave	39
Hosseiniapanah,Mirshahram Wu,Qun Fu,Jiahui	
A Novel Generic Cross-Layer Architecture for Next Generation Mobile Communication System	43
Tang,Rui Zhang,Jinbao Chen,Xia Tan,Zhenhui Jin,Xiaojun	
A Novel Method of Modeling the Electromagnetic Spectrum Management System for the Fleet	47
Yu,Jing Liao,Rongtao Wen,Ding'e	
A Novel Mobility Management Scheme for Convergence of Heterogeneous Networks	51
Zhang,Jinbao Chen,Xia Tang,Rui	
A Novel Multiple Access Protocol with QoS Support for Mobile Ad Hoc Networks	57
Wang,Dapeng Liu,Kai	
A Practical Bit and Power Allocation Algorithm for MIMO-OFDM System in Time Varying Wireless Channels	61
Liu,Min Xu,Dazhuan	
A service replication protocol in mobile ad hoc Networks	66
He,Linna Yin,Wei	
A Simple and Effective Post-FFT Beamforming Technique for QAM-OFDM Systems	70
Ma,Ning Li,Ping'an	
A Solution of Video Sensor Node Implementation	74
Wang,Yifeng Zhong,Xiaofeng Zhao,Ming	
Adaptive QoS Management for Delivering Scalable Video over OFDM System	79
Huang,Qing Sun,Xin Zhang,Yuan	
An efficient Iub flow control algorithm in HSDPA	84
Hong,Wei Chen,Shuping Peng,Mugen Wang,Wenbo	
An Energy-Efficient and Low-Latency MAC Protocol for Wireless Sensor Networks	90
Wang,Lening Liu,Kai	
An Improved Synchronization Method for IEEE 802.11a	94
Liu,Huan i,Xu Song,Mei Tan,Zhenhui Feng,Chen	
Analysis and Study of the Relationship of Energy Consumption and CPU buffer of a wireless sensor node	98
Zhang,Jianwu Zhang,Jiji Yuan,Mingliang	
Analysis on UWB Ambipolar Multi-pulse Position Modulation	102
Wang,Yeqiu Lu,Yinghua Yang,Biao Wang,Haixia Xu,Jun	
BER Performance of Position Code Parallel Combinatory Spread Spectrum System	106
Li,Beiming Guo,Lili	
Blind Channel Estimation for the Multicarrier V-BLAST System	111
Zhang,Hong Yin ,Qinye	

Blind Decoding Algorithm in Vertical Layered MultiCarrier System	115
Zhang,Hong Yin,Qinye	
Capacity Evaluation of Cellular TDD-CDMA Systems Deploying Multi-frequency	119
Chen,Shuping Lin,Huibin Wu,Xin	
Zhao,Dong Peng,Mugen Wang,Wenbo	
Capacity of MIMO systems with joint space diversity and polarization diversity based on IEEE 802.16d	125
Li,Ping'an Tong,Chao Liu,Kewen	
Connector Optimization in Virtual Backbone Network	129
Zhang,Hao Zhong,Xiaofeng Wang,Jing	
Cooperation Enforcement Mechanism Considering Battery Cost in Ad hoc Networks	134
Wu,Hao Ding,Yiming Li,Chengshu	
Cross-layer Design for Adaptive Modulation and Coding with Hybrid ARQ	138
Peng,Xiaochuan Song,Mei Song,Junde	
Cross-Layer Relay Selection in Two-hop Cellular Relaying Networks	142
Wang,Kun Peng,Mugen Wang,Wenbo	
Design and Simulation of a Novel Two-Layer Artificial Magnetic Conductors	148
Hosseinipanah,Mirshahram Wu,Qun Fu,Jiahui	
Development of a Low-cost Active RFID Platform	152
Hao,Yanna Hong,Zhiliang	
Effect of Antenna Mutual Coupling on Degree of Freedom of MIMO Systems	156
Yun,Zhengqing Iskander,Magdy F.	
Effect of Antenna Patterns on Narrowband MIMO Capacity	160
Intarapanich,Apichart Thongsopa,Chanchai Saetiaiw,Charinsak	
Effective CAC Scheme in IEEE 802.11e Wireless LANs	164
Zhu,Rongbo Liu,Xiaozhu	
Effects induced by the third-order dispersion in TPC system	168
Li,Qiliang Sun,Lili	
Efficient Consistency Control for Mobile Dynamic Contents Delivery Network	171
Su,Zhou Katto,Jiro Yasuda,Yasuhiko	
Efficient Multiuser Water-filling Algorithm under Interference Temperature Constraints in OFDMA-based Cognitive Radio Networks	174
Lu,Qianxi Wang,Wei Peng,Tao Wang,Wenbo	
Energy-saving Strategies of Wireless Sensor Networks	178
Cui,Xiaoyan Zhang,Xiaodong Shang,Yongkai	
Enhance Aggregate Throughput in Multi-radio Wireless Mesh Network	182
Zhang,Hao Zhong,Xiaofeng Xu,Yun	
Frequency Domain Equalization with Ordered PIC for Single Carrier MIMO System	187
Yan,Hongzhong Zhao,Hui Wang,Wenbo	

Gateway Assisted Hybrid Geographic Forwarding for Heterogeneous Sensor Networks	191
Li,Shihan Qian,Depei Liu,Yi Du,Zhigao	
Improvement of TCP Congestion Control Algorithm in Ad Hoc Networks	197
Gong,Changqing Wang,Xiaoyan Bi,Xiaoxia	
Interference Analysis and Co-existence Studies of 3GPP LTE Systems	200
Zhao,Dong Jin,Di Chen,Shuping	
Peng,Mugen Wang,Wenbo	
Investigation of Mutual Coupling Effect on the Interference Rejection Capability of Linear Patch Array in CDMA Systems	205
Fallahi,R. Roshandel,M.	
Microstrip Wide Band-pass Filter Based on Substrate Integrated Waveguide (SIW)	209
Zhang,Xiaochuan Xu,Jun Yu,Zhiyuan Dong,Yuliang	
Multi-Destination Multicast Routing Protocol in MANET	212
Yin,Min Tang,Yao	
Multuser Scheduling Analysis of MIMO STBC with Imperfect Channel Estimation	217
Zhang,Xing Wang,Wenbo	
Node Selection in Relay-based Cellular Networks	221
Song,Huali Peng,Mugen Wang,Wenbo	
Novel MIMO Transceiver Scheme Based on Singular Linear Transform	226
Lee,Li Wang,Jing Wu,Xiaoyun	
On a new method of spectrum sharing in UWB system	230
Shi,Yaning Song,Qijun Li,Xudong Zhao,Feng	
On Scheduling and Resource Allocation in Multicarrier TD-HSDPA	234
Han,Jing Chen,Shuping Hong,Wei	
Peng,Mugen Wang,Wenbo	
Performance of Low Density Parity Check Code Applied in WiBro System	239
Che,Wen Peng,Yuexing Wang,Wenbo	
Performance of Time-Hopping PPAM UWB Multiple Access Communications Over Indoor Fading Channels	243
Zhang,Hao Gulliver,T.Aaron	
Relay Region Analysis for Amplify-and-Forward Cooperative Communications	247
Xiong,Haitao Xu,Jing Wang,Ping Feng,Songlin	
Research and Improvement of LEACH Protocol in Wireless Sensor Networks	251
Cui,Xiaoyan	
Research on One Kind of Improved GPSR Secure Routing Protocol	255
Wu,Hao Cheng,Chao Li,Chengshu	
Sphere Decoding for MIMO OFDM with the Aid of HARQ	260
Li,Haitao	

The Ambiguity Function of MIMO Radar	265
Qu,Jinyou Zhang,Jianyun Liu,Chunquan	
Topological Formation Time of Hierarchy Wireless Sensor Networks for Coal Mine Security Monitoring	269
Li,Xin Yang,Wei Zeng,Ping	
Using Neural Network Classifier of Packet Loss Causes to Improve TCP Congestion Control over Ad Hoc Networks	273
Gong,Changqing Zhao,Linna Wang,Xiaoyan	
Vehicular GPS Monitor System Based on GPRS Network	277
Ning,Tao	
Views on Further Improving the Spectrum Efficiency	281
Song,Qijun Hu,Yanzhao Song,Xiaowen Zhang,Tao	
Wireless Modeling of HF Networks in OPNET	285
Zhang,Zhuo Xiang,Donglei Liu,Qianli Li,Maopei	

Microwave Electronics

126 GHz Fully-Balanced Oscillator and 1/4 Dynamic Divider in 0.25 μ m SiGe:C BiCMOS ...	289
Zhao,Yan Wang,Zhigong Zhang,Li	
A compact bandpass filter with two finite transmission Zeros using LTCC technology	293
Yang,Tao Yan,Bo Wang,Shuyi Zhang,Juan	
A Compact Transition Structure Integrated with DC Feed Filter for Submillimeter Wave Application	297
Lin,Yuangen Zhang,Yong Xu,Ruimin Xie,Jun Wang,Shuyi	
A Investigation into X-ray Radiation of VDMOS	300
Tan,Kaizhou Hu,Gangyi Yang,Mohua Zhang,Bo Xu,Shiliu	
Li,Zehong Liu,Yukui He,Kaiquan Zhang,Lei	
A Ka Band Transceiver Using LTCC Technology	305
Zhang,Shengzhang Cui,Yubo Guan,Yujing	
A Low-Power AC/DC Rectifier for Passive UHF RFID Transponders	309
Ma,Changming Zhang,Chun Wang,Zhihua	
A Modified F50 Technique to Determine the Noise Parameters of Active Microwave Devices	315
Wang,Jun	
A new Compact Low-Pass Filter with deep stopband	319
Zhao,Wen Guo,Huiping Liu,Xueguan	
A New Type of Multi-Beam Slow-Wave Structure of Millimeter Wave Traveling Wave Tube	323
Li,Zelun Lv,Guoqiang Deng,Shanxi Huang,Youjun Deng,Guangsheng	

A Novel Adaptive Digital Predistortion for RF Power Amplifier Linearization Based on Simplified Volterra Series	327
Zhang,Peng Zhang,Qin Wu,Siliang	
A Novel RX-TX Front-Ends for Passive RFID Reader with High Isolation	332
Bai,Peng Yin,Yingzeng Yang,Xi	
A Novel Six Bit Phase Shifter for the Ku Band	336
Wang,Zhigang Yan,Bo Xu,Ruimin Guo,Yunchuan	
A Novel Waveguide to Microstrip Transition in Millimeter-Wave LTCC Module	340
Wang,Zhigang Xia,Lei Yan,Bo Xu,Ruimin	
A Phase-shifterless Active Phase Array Using Coupled Oscillators	344
Gao,Weiliang Jiang,Yonghua Ling,Xiang Li,Jun	
A Straightforward Design method for the Top-L Coupled Bandpass Filter	348
Xiong,Xuehui	
A W-Band 2nd Subharmonic Injection-Locked Phase-Locked Loop with Large Locking Range	351
Cao,Zhou Tang,Xiaohong	
A W-Band Low Loss E-Plane Type Waveguide	355
Bandpass Filter Zhao,Minghua Fan,Yong Yang,Ziqiang	
Zhang,Yonghong Zhan,Jinkun	
Accurate Validation Methods for Dynamic Nonlinear Behavioral Models of Wideband RF Power Amplifiers Using Memoryless Predistortion Techniques	358
Liu,Taijun Ye,Yan Boumaiza,Slim Zeng,Xingbin	
He,Jiaming Sesay,Abu B. Ghannouch,Fadhel M.	
Analysis and design of a power divider using metamaterials	362
Li, Jiusheng	
Analysis and Optimization Design of High Order Mode Rectangular Cavities	366
Ye,Yan Liu,Taijun Zeng,Xingbin He,Jiaming Akyel,Cevdet	
Analysis of Characteristic Impedance of Asymmetrical Coplanar Waveguide Using Multi-resolution Time Domain Method	370
Fan,Mujie Fang,Shaojun Wang,Encheng Fu,Shiqiang Chen,Peng	
Analysis of ohmic quality factor for the Azimuthally Symmetrical TE ₀₃ -mode 42GHz gyrotron cavity	374
Singh,R.K. Jain,P.K. Basu,B.N.	
Application of CRLH Transmission Lines in Microstrip Filter	378
Li, Jiusheng Du,Tieying Li,Jianrui	
Application of photonic crystals in sub-terahertz-wave switch	382
Li, Jiusheng Du,Tieying	
Broadband Waveguide-to-Microstrip Antipodal Finline Transition without Additional Resonance Preventer	385
Bai,Rui Dong,Yuliang Xu,Jun	

Design and Analysis of the Eighth Sub-Harmonic Mixers at W-band	389
Liang,Musheng Tang,Xiaohong Wu,Tao	
Design of A 2.4 GHz Low Noise Amplifier in 0.25 μ m CMOS Technology	392
Yang,Tao	
Design of A Novel Compact Planar Six- way Power Divider Using Folded and Hybrid-Expanded Coupled Line	396
Chen,Hui Zhang,Yuxing	
Determination of the Phase Noise Sources of CMOS-Integrated LC Oscillators	400
Wang,Jun	
Dispersion Characteristics of a Grating-waveguide for Terahertz Radiation	404
Liu,Wenxin Yang,Ziqiang Liang,Zheng	
Double Ridged Waveguide Low Pass Filters for Satellite application	408
Li,Shengxian Fu,Junmei Wu,Xuda	
Frequency Agile Microwave Devices Using Variable Characteristic Impedance Transmission Lines	411
Chun,Y.H. Hong,J.S.	
Hammerstein-Like Predistortion Techniques for Wideband Wireless Power Amplifier Linearization	415
Liu,Taijun Ye,Yan Boumaiza,Slim Zeng,Xingbin	
He,Jiaming Sesay,Abu B. Ghannouchi,Fadhel M.	
Harmonic-Suppressed Elliptic-Function Low-pass Filter Using Defected Ground Structure...	419
Qi,Yujie Liu,Xueguan	
Initialization Analysis of IIR Ground Clutter Filter In Doppler Weather Radar	423
Gao,Yuchun Liu,Yan He,Jianxin	
Investigation of Dispersion and Harmonic Suppression in Helix TWTs with Studded Slow-Wave-Structure	427
Hu,Minghui Liao,Fujiang Ma,Shaoyun Zhang,Jian	
Huang,Fujing Li,Fa Li,Wei Shi,Ming	
Meng,Lingtu Su,Dexin	
Miniaturized Periodic Stepped-Impedance Ring Filter With Patterned Ground Plane	431
Mao,Ruijie Tang,Xiaohong Wang,Ling	
New Design Method for a Dual band Waveguide Iris Polarizer	435
Hwang,Soonmi Ahn,BierngChearl	
Receiver design for GSM BTS system	439
Huang,Jonlier Yuan,Dongwei	
Recent Development of Ultra-Wideband (UWB) Filters	442
Hong, Jiasheng Li,Keren	
Research on the Millimeter Wave Power Equalizer	446
Zhang,Yong Yu,Mengguo Yan,Bo Xu,Ruimin	

A Novel LFM CW Scheme of the Real-Time Tracking the DDS by the PLL	450
Dong,Fangchi Tang,Xiaohong Wu,Tao	
Study on the Time Domain Circuit Finite Difference Method and Its Application to Non-Uniform Transmission Lines	454
Zhang,Hui Wang,Junhong Liang,Weiyi	
The Design of 3.6GHz~4.2GHz Low Noise Amplifier	458
Yang,Weiming He,Liping Yang,Bin Xie,Wanbo Shi,Chen Chen,Jianxin	
The Design of Transmission Mode Dielectric Resonator Voltage-Controlled Oscillators	462
Bei,Weifeng Tang,Xiaohong	
The Research of a L Band Low Noise Cryogenic Amplifier Basing on PHEMT	464
Wu,Dongsheng Fang,Qiansheng	
The Scheme and Key Components Design of W-band Coherent Doppler Velocity Radar Front-end	467
Yang,Fan Tang,Xiaohong Wu,Tao	
Theoretical analysis of stability in a passively mode-locked Fiber laser with polarization effect	471
Li,Qiliang Yu,Shuyi	
Two-dimensional Coupled Phase Locked Loop Array Used for Beam-scanning	475
Ling,Xiang Jiang,Yonghua Gao,Weiliang Li,Jun	
Two-double Post Waveguide BPF on LTCC	479
Bian,Lei Guo,Y.X. Shi,X.Q.	
Ultra-wide Band Random-signal RADAR Utilizing Microwave Chaos	482
Qiao,Shan Jiang,Tao Ran,Lixin Chen,Kangsheng	
Wireless Charging System Based on Switched Beam Smart Antenna Technique	486
Zhu,Xi Zhang,Xiaodong Wu,Qingyu	

Antennas

A Beamspace-based Pre-FFT Beam-forming Algorithm for OFDM Systems with Antenna array	490
Liu,Shenghai Feng,Suili Wu,Ye	
A Circular Wire Antenna for Ultra Wideband Applications	496
Zhang,Z. Bernhard,J. T.	
A Dipole-disk Antenna with Equal Beamwidths	500
Yang,Xi Yin,Yingzeng Zhang,Hongtao	
A Dual-Band Microstrip-Fed Bow-Tie Antenna for GSM/CDMA and 3G/WLAN	504
Liu,Juan Xia,Jing Wang,Gang	
A Dual-Frequency DRA Based on Substrate Integrated Waveguide	508
Tan,Kejun Luan,Xiuzhen Safieddin,SafaviNaeini	

A Dual-Frequency Microstrip Antenna with Wider Beam and Higher Gain at Low-Angle ...	512
Zhang, Yingfeng Lv, Shanwei Luo, Xianliang	
A frequency reconfigurable slot antenna	516
Chen, Yibo Liu, Xufeng Jiao, Yongchang Zhang, Fushun	
A Method to Improve the Performance of the Stacked Circularly Polarized Microstrip Antenna	519
Hao, Liqiang Miao, Jungang Zhao, Xin	
A Miniaturized Loaded Open Sleeve Antenna	523
Chen, Jin Fu, Guang Wu, Guangde	
A Modified Grid Array Antenna Radiating a Circularly Polarized Wave	527
Nakano, H. Osada, H. Mimaki, H. Iitsuka, Y. Yamauchi, J.	
A Multi-Band Small Antenna Based on Deformed Split Ring Resonators of Left-Handed Meta-Materials	531
Yu, Zhiyuan Wang, Qi	
A New Shaped Reflector Antenna for Wide Beam Radiation Patterns	535
Karimkashi, S. Mallahzadeh, A.R. Rashed Mohassel, J.	
A New Torus Knot EFIE	539
Zhang, Xufeng Luo, Jianshu	
A New UWB Skeletal Antenna for EMC Applications	543
Mallahzadeh, A.R. Pazoki, R. Karimkashi, S.	
A Novel Design of a Frequency-Invariant Beamformer	547
Liang, Huanhui Zhou, Yuanping Tang, Wenming	
A Novel DOA estimation Algorithm Based on Eigen Space	551
Zhang, Xiaofei Lv, Wen Shi, Ying	
Zhao, Ruina Xu, Dazhuan	
A Novel Method of Improving Bandwidth of a Printed CPW-fed PIFA	555
Chen, Song Yin, Cheng Sha, Fei	
A Triple-band Circular Polarization Stacked Microstrip Antenna	559
Liu, Donghai Miao, Jungang Zhao, Xin	
An Analog and Digital Weighting Approach for Sum and Difference Patterns with Plane Array	563
Hu, Hang Liu, Weihui	
An annular-ring slot antenna for circular polarization	567
Mu, Wei Zhao, Gang Wu, Gaolei Ma, Jinping	
An approach to designing linear array with high accuracy in Direction of arrival Estimation ...	571
Liu, Hongsheng Xiao, Xianci	
An Effective Fast Matching Oriented Slot Antenna Designing Method with RFID Tag Chip ...	575
Zhou, Yongming Zhong, Zhilong Hong, Yuanquan	

Analysis and Design of UWB Vivaldi Antenna	579
Li,Tianming Rao,Yuping Niu,Zhongxia	
Antenna Technology for Meteor Scatter Communication	582
Li,Mingding Fu,Guang Wu,Gaolei	
Bandwidth Improvement of a Planar Inverted F-Antenna by Introducing Multiple Ground Pins	586
Rao,Qinjiang Wen,Geyi Ali,Shirook Pecen,Mark	
Blind 2D-DOA Estimation for Uniform Circular Array	589
Zhang,Xiaofei Shi,Ying Zhao,Ruina	
Lv,Wen Xu,Dazhuan	
Broadband Polarization Diversity Base Station Antenna for 3G Communication System	593
Su,Daoyi Fu,Demin Wang,Thomas N.C. Yang,Hua	
Characteristic Mode Analysis of Diversity Wire Antenna With Highly-Isolated Ports	597
Wu,Weixia Wang,Bingzhong Liu,Jing Yu,Chuan	
Compact Patch Antenna Adopted at Mobile Terminal in MIMO System	601
Fan,Fangfang Yan,Zehong Xiao,Weihong Jiang,Junbo	
Compact Printed Monopole Antenna with Super-wideband	605
Yan,Xiaorong Zhong,Shunshi Yang,Xuexia	
Compact Reconfigurable Microstrip Antenna For Multi-band Wireless Applications	608
Liu,Junying Zhang,Jinping Wang,Weidong Wang,Dongjin	
Compact UWB Printed Monopole Antenna	612
Ding,Yi Wang,Guangming Yu,Zhongwu	
Comprehension of Designing Multi- frequency andMulti-polarization Stacked-patch Antenna of Low-AR and High-Gain at Large Theta Angle	615
Luo,Xianliang Miao,Jungang Zhang,Yingfeng Zhang,Yan	
Computational Modeling for Panel Adjustment of Large Reflector Antennas	619
Wang,Wei Duan,Baoyan	
Conformal Low-profile E-shaped Patch Antenna with Unequal Thickness Substrate	624
Liu,Xufeng Chen,Yibo Jiao,Yongchang Zhang,Fushun	
Design and Analysis of a Folded Printed Inverted-F Antenna for Bluetooth Applications	628
Wei,F. Chen,L. Shi,X.W. Zhai,Y.W.	
Design and Simulation of Broadband Unidirectional CPW-Fed Rectangular Slot Antennas	632
Chen,Weiqiang Ding,Guifu Li,Binhong Sun,Xiaofeng	
Design of Broad-Band Circularly Polarized Microstrip Patch Antenna Array	636
Dong,Tao	
Footprint Adjustment On SFCW-GPR With Modified Dipole Array	639
Pramudita,A.Adya Kurniawan,A.	
Suksmono,A.Bayu Lestari,A.Andaya	
High-Performance Universal GNSS Antenna Based on SMM Antenna Technology	644
Wang,Johnson J. H. Triplett,David J.	

Influence of the Metallic Shield on the Antenna Temperature Calibration for the Microwave Radiometer	648
Xiao,Hui Miao,Jungang Yang,Yujie Peng,Yi	
Integrated Internal GSM850/GSM900/DCS/PCS and Wi-Fi Antennas for Mobile Telephone	652
Liu,Ying Bu,Antao Gong,Shuxi	
Matching Limits for a Dual-Band Mobile Phone Antenna	656
Li,Yiqun Derat,Benoît	
Pasquet,Daniel Bolomey,Jean-Charles	
Mutual Coupling Calibration for Smart Antennas in CDMA Communication Systems	660
Lin,Min Lu,Ruimin Yang,Luxi	
Novel Circularly Polarized Square Microstrip Antenna with L-Slits	665
Zhang,Honglin Cheng,Hongqi Tian,Libin Hu,Binjie	
Optimization and Application of the Yagi-Uda Antenna for Meteor Burst Communication ...	669
Lei,Juan Fu,Guang Yang,Lin Fu,Demin	
Optimization of UWB Pyramidal Horn Antenna with load	673
Xia,Yingqing Edwards,D.J.	
Optimizing the Architecture of Planar Phased Array by Improved Genetic Algorithm	676
Hu,Hang Qin,Weicheng Feng,Shuo	
Pencil beam pattern synthesis using perturbation technique and fast Fourier transforms	680
Ren,X.F. Azevedo,A.J.R. Casimiro,A.M.E.S.	
Printed CPW-fed Monopole Antenna with Band-notched Characteristic	684
Yan,Xiaorong Zhong,Shunshi Chen,Kuangda	
Research of Power Density Standard from 1GHz to 18GHz	687
Xiao,Meng Wen,Yinghong	
Research on Subarray Partitioning of Planar Phased Array With Adaptive Digital Beamforming	691
Hu,Hang Qin,Weicheng	
Research on the EM Field on the Surface of a Surface Wave Antenna	695
Liu,Zhongkai Xue,Zhenghui Gao,Benqing	
Self-structuring Antenna with Fractal Structure	699
Zhang,Hongtao Yin,Yingzeng Bai,Peng	
Side Lobe Reduction in Symmetric Dual-Reflector Antennas Using a Small Lens Antenna ...	703
Karimkashi,Shaya Rashed Mohassel,J.	
Stacked Dual-Band Circularly Polarized Microstrip Patch Antenna	706
Bai,Bing Miao,Jungang Lee,Fengqin	
Stationary Phase Analysis of a Printed Circular Wire Loop Antenna with Dielectric Superstrate Cover Based on an Efficient Moment Method	710
Kamardin,Kamilia Khamas,Salam	

Study on ADBF for Difference Beam at Subarray Level with Low Sidelobe Level	714
Hu,Hang Zhang,Hao	
Study on Natural Frequencies Tuning Method of Nearest-Neighbor Coupled Oscillators	718
Tang,Zhikai He,Minghao Hao,Yuan	
Hu,Linhua Qin,Kaibing	
Study on V-Shaped Dipole Antenna Array for Pulse Radiation	723
Chen,Meie Wang,Junhong	
Synthesis of Zolotarev Patterns	727
Azevedo,A.J.R. Ren,X.F. Casimiro,A.M.E.S.	
The analysis and measurements of spot focusing lens Antenna resolution	731
Ma,Ping He,Changwei Liu,Shuzhang	
The Research of Phase Center of Log- periodic dipole antenna	735
Kong,Rong Su,Donglin Yang,Zhengguang	
Transient Response of Single or Coupled Wire Antennas Above Dielectric Half-space	739
Li,Lin Li,Lijuan Gao,Changzheng Zhao,Zhibin	

Propagation

A Statistical Model of UHF Radio Waves in Empty Straight Coal Mine Laneway	743
Li,Ying Yang,Wei Zeng,Ping	
An Improved Routing Protocol in Mobile Ad Hoc Networks	748
Liu,Ting Liu,Kai	
Analysis and Calculation of Sand and Dust Attenuation Model	752
Hu,Tao Shao,Ying Zhou,Dongfang	
Niu,Zhongxia, Rao,Yuping Zhou,Wang	
Analysis and Comparison of the Performance about Wireless Modulation Technologies in the Empty and Straight Mine Laneway	756
Niu,Li Yang,Wei Zeng,Ping	
Analyse of Model of Rainfall depolarization Based on Factual Metrical Rainfall Condition ...	761
Hu,Tao Song,Hang Yang,Jianhong	
Niu,Zhongxia, Zhou,Dongfang Rao,Yuping	
Application of Parallel Genetic Algorithm with Two-step Fitness Function for the design of Multi-band Single-Layer Frequency Selective Surface	765
Zhou,R. Zhuang,W. Ding,D. Z. Chen,R.S.	
Characteristic and Simulation of the Near Space Communication Channel	769
Zheng,Bo Ren,Qinghua Liu,Yunjiang	
Chu,Zhenyong Zhao,Feng	
Experimental Study on Microwave OTH Propagation	774
Liu,Chengguo Tu,Lianghong Wu,Fan Wang,Yuan	

Linear Time and Frequency Domain Fractionally Spaced Equalization	778
Li,Zhiyuan Li,Baojin Lou,Peide	
Location Determination with Four Elements Antenna Using Matrix Pencil Method	782
Elkamchouchi,Hassan M. Labib,Mohamed A.	
Modeling Evaporation Duct Propagation above Gaussian Rough Sea Surface by the Parabolic Wave Equation	786
Pan,Yue Ma,Yuanliang Yang,Kunde	
Propagation Path Loss Characterization for an 870 MHz Cellular CDMA System in Taipei City	790
Wang,Chienchung Huang,Jhinfang	
Research on Satellite-to-Ground Optical Communication and AO Technique	794
Zhou,Li Deng,Xiuhua Wen,Chuanhua	
Research on the distance law of interference between 802.11b and Bluetooth technology ...	799
Guo,Xinjun Wang,Gang Shen,Dongya	
RFID Antenna Near the Surface of Metal	803
Mo,Lingfei Zhang,Hongjian	
Simulation of UWB Pulsed Indoor Propagation Channel	807
Wang,Yang Zhang,Minggao Zhang,Qinyu Xu,Guangning	
The Bluetooth Body Centre Network Channel Character For Wearable Computer	811
Chen,Jinrong Song,Junde Han,Yunan Zhang,Yong	
The Error of MM5 System Prediction Used in Electromagnetic Environment	814
Liu,Chengguo Wu,Fan Tu,Lianghong	
The Research of High Power Microwave Interaction in Lower Ionosphere	818
Song,Hang Wang,Pan Zhang,Huihui	
Niu,Zhongxia Guo,Jie Zhao,Rong	
Time Domain Calculation of UWB Impulse Signal Transmitting through a Finitely Conducting Slab	822
Wang,Yang Zhang,Qinyu Zhang,Naitong	
Wideband Channel Measurements and Characterization of the Urban Environment	826
Wang,Zhen Wang,Ping Li,Wei Xiong,Haitao	

Electromagnetics

A Conjugate Gradient FFT Method for Wire Structure	830
Li,Lin Gao,Changzheng Zhao,Zhibin Huang,Hongxia	
A Fast Solution to the Volume Integral Equation for 3-D Dielectric Objects by Using the Precorrected-FFT with Floating Stencil	834
Chen,Zhongkuan Wang,Shengshui Chai,Shunlian	
A FDTD Method of Quasi-stationary Transient Electromagnetic Field	838
Fu,Qiao Yan,Shu	

A Kind of Preconditioners Based on Shifted Operators to Solve Three-Dimensional TVFEM Equations	842
Li,S.S. Ping,X.W. Chen,R.S.	
A Modified Liao's Absorbing Boundary Condition for FDTD Simulations in 2-D Cylindrical Coordinates with Rotational Symmetry	845
Yu,Tongbin Qian,Zuping Lu,Chunlan	
A New ICCG Method of Large-Scale Sparse Linear Equation Group	848
Zhang,Yongjie Sun,Qin	
A Novel Approach of Automatic Target Recognition using High Resolution Radar Range Profiles	852
Luo,Si Li,Shaohong	
A Novel Method to Analyze UWB Signal Algorithm	856
Zou,Weixia Yang,Cheng Wang,Wei Zhou,Zheng	
A Planar Integrated Left-Handed Microstrip Line Formed by Linearly Placed Spiral Elements	860
Guo,Yunchuan Xu,Ruimin	
Feresidis,Alexandros Vardaxoglou,Yiannis	
A Solution of Time Domain Integral Equation using Hermite Polynomials	864
Shi,Yifei Li,Shangsheng	
A Three-Dimensional Fourth-Order ADI-FDTD Method and Its Application in Cavity Problems	868
Zhang,Yan Lv,Shanwei Zhang,Jun Xue,Minghua	
Adaptive sampling approach based on cubic-spline for the Fast monostatic RCS calculation ...	872
Liu,Z.W. Chen,J.Q. Chen,R.S.	
Analysis of a Probe-fed Cylindrically Conformal Microstrip Patch Antenna using the Conformal FDTD Algorithm	876
Lu,Qing Xu,Xiaowen He,Mang	
Analysis of EMP Propagation in Protection Engineering	880
Duan,Yantao Chen,Bin Chen,Hailin	
Analysis of Two-dimensional Fields in the Inhomogeneous Media	884
Chen,Aixin Chen,Aihong	
Application of SEM Technique to Characterization of Breast Tumors	887
Li,Danju Guo,Bin Wang,Gang	
Application of the Window Function in Bistatic Planar Near-Field Scattering Measurements ...	891
Yu,Ding Fu,Demin Liu,Qizhong Mao,Naihong	
Bandstop Filter Base on Composite Right/left-handed(CRLH) Transmission line	895
Li, Jiusheng Zhuang, Yunyun Du, Tieying Pan, Jiajia	
Calculation of the Transient Electromagnetic Fields in Substation	899
Zhao,Zhibin Cui,Xiang Lu,Tiebing Gao,Changzheng	

Complex Rays Expansion of Three Dimension Radiation Pattern Using Buckyball Grid	905
Zhang,Pengfei Xu,Yunxue Gong,Shuxi	
Design and Optimization of Microstrip Passive Circuits by Field-Based Equivalent Circuit Model with Aggressive Space Mapping	909
Tang,Wanchun Zhou,Puke Chen,Xuemei Chow,Y. Leonard	
Diffraction Tomography Algorithm for Ground Penetrating Radar	913
Cheng,Yan Zhang,Jianzhong	
Electromagnetic Characteristics of Synthetic Faraday Chiral Media	917
Ding,D.Z. Yung,K.N. Chen,R.S. Wang,D.X.	
Experimental Investigation on Electromagnetic Scattering of Hypersonic Sphere and Ionized Wake	921
Ma,Ping Bu,Shaoqing Liu,Sen	
Zeng,Xuejun Yu,Zhefeng Shi,Anhua	
FDTD Analysis and Experimental Research of Shielding Effectiveness of the Cage Built with Wire-Mesh Reinforcement	926
Jiao,Chaoqun Cui,Xiang Li,Lin Zhao,Zhibin	
Guided Modes in a Slab Waveguide of Anisotropic dispersive Metamaterial	930
Liu,Songhua Liang,Changhong	
Hierarchical Two-level Preconditioning of MLFMA Algorithm for Electromagnetic Wave Scattering Problems	934
Li,S.S. Yang,Y. Chen,R.S. Ke,T.	
High-order accurate ADI-FDTD method with high-order Spatial accuracy	938
Xiao,Fei Tang,Xiaohong Guo,Lei	
Horizontal Dipole Radiation in the Presence of a Lossless Metamaterial Sphere	942
Wang,Hailong Fu,Jiahui Wu,Qun Wu,Jian	
Implementation of the Split-Field Method for FSS Structures	946
Huang,Liuhong Chen,Bin Yi,Yun	
Chen,Hailin Yin,Qin	
Improvements of Robustness of Genetic Algorithm for Near Field–Far Field Radiation Conversion	950
Fan,Hongmei Schlagenhauser,Franz	
Interaction between mixture burning plasma and electromagnetic wave in the atmosphere ...	954
Yu,Zhefeng Zeng,Xuejun Ma,ping	
Hang,Qian Liang,Shichang	
LU Decomposition Method in Calculating Electric Field Components of 2-D ADI-FDTD ...	958
Yang,Jie Li,Yaobo Chen,Bin Liu,Feng Pan,Zheng	
Measurement of Shielding Effectiveness of Reinforcing Bar Loops and Cage to magnetic field	962
Zhu,Yichao Wang,Kejia Gao,Cheng Zhou,Bihua Wan,Haojiang	

Microwave Holographic Imaging of Breast Cancer	966
Eldson,Michael Leach,Mark Skobelev,Sergei Smith,David	
Parallel Analysis of Transient Scattering by 3D Conducting Objects Using Time Domain Integral Equation Method	970
Zhang,G.H. Xia,M.Y.	
QR-AMCBFM for Electromagnetic Scattering Analysis	974
Han,Guodong Gu,Changqing	
Radar Target's Angular Glint Based on the RCS	978
Xia,Yingqing Xu,Penggen	
Realization of the Algorithms of a Multi-static TWSR	981
Chang,Yunfen Wang,Kejia Gao,Cheng Shi,Lihua Xu,Yuanzhe	
Simplified Design of Near Field RCS Measurement and Microwave Imaging System	985
Wang,Chao Xue,Minghua Liu,Lin	
Simulation of Beam-Wave Interaction for Millimeter Wave Coupled-Cavity Traveling Wave Tube Using PIC	989
Li,Zelun Lv,Guoqiang Deng,Shanxi Huang,Youjun Deng,Guangsheng	
Study of Radar Target Identification Based on Cepstrum and Complex Cepstrum	993
Zhou,DeQuan Guo,Yanqing	
Study on RCS of Polygonal Plate Over the Rough Sea Surface	997
Xu,Yunxue Gong,Shuxi	
Study on the Scattering Property of the Impedance Terminated Dipole Array with Finite Reflector by FDTD Method	1003
Li,Zengrui Wang,Junhong Luo,Limei Zhang,Xueqin	
The Decrease of the Radar Cross Section of Hypersonic Model	1008
Yu,Zhefeng Bu,Shaoqing Liu,Sen	
Zeng,Xuejun Ma,Ping Shi,Anhua	
Transient Simulation of Lossy and Nonuniform Multi-Conductor Transmission Lines by Time Domain Finite Element	1011
Liu,Lei Cui,Xiang	
Tuned S-shaped Resonators	1017
Khan,M. F. Mughal,M. J.	
Using Support Vector Machine Regression for Measuring Electromagnetic Parameters of Magnetic Materials	1020
Wu,Yunqiu Tang,Zongxi Zhang,Biao Xu,Yuehang	

Signal Processing, Coding, or Waveforms

A Fast and Accurate Frequency Acquisition Method	1023
Zhang,Jianglin Lv,Shanwei Dong,Shengbo Zhang,Jun	

A Fast Demodulating Method for Frequency Shift Signal Based on Fractal Box Dimensions Theory	1027
Zhao,Linhai Xu,Xun Ji,Na	
A High Resolution Spatial Smoothing Algorithm	1031
Dong,Mei Zhang,Shouhong	
Wu,Xiangdong Zhang,Huanying	
A New 2-D DOA Estimation Algorithm for Noncircular Signals	1035
Liu,Jian Huang,Zhitao Zhou,Yiyu	
A New Method for m-sequence and Gold- Sequence Generator Polynomial Estimation	1039
Wang,Fenghua Huang,Zhitao Zhou,Yiyu	
A Novel Call Admission Control for Multimedia Network	1045
Xu,Xing Xu,Sheng	
A Novel Frequency-band Coded Orthogonal UWB Chirp Pulse Design for Cognitive NBI Suppression	1048
Liu,Wei Zou,Weixia Xu,Fangmin	
Zhou,Zheng Kwak,Kyung Sup	
A Simple Design Method for Nonuniform Cosine Modulated Filter Banks	1052
Zhang,Zijing Yang,Yun	
A Technique for Eureka-147 Digital Audio Broadcasting Fine Symbol Timing Offset Estimation	1056
Yang,Zhengfan Yao,Dongping	
A Widely-Linear LMS Algorithm for Adaptive Beamformer	1060
Qu,Jinyou Zhang,Jianyun Zhang,Xin'an	
An Adaptive Demodulation Method for QAM Signals	1064
Li,Yanxin Hu,Aiqun	
An Efficient Timing and Frequency Synchronization Scheme For OFDM based TETRA Systems	1068
Zhang,Qin Li,Hai	
An improved Second Order Nonstationary Source Separation Algorithm	1072
Wang,Weihua Huang,Fenggang	
Blind Adaptive Channel Equalization Based on Affine Projection Algorithm	1076
Jiang,Yuzhong Zhang,Shuxia Liang,Yuan	
DOA Estimation for MC-CDMA System with Antenna Array	1080
Zhang,Dezhen Yang,Shuo Yang,Wei	
Doubly Selective Fading Channel Tracking Based on Particle Filter in MIMO-OFDM Systems	1084
Li,Haiyan Wang,Yong Jiang,Mingyan Yuan,Dongfeng	
Enhanced HARQ Schemes Based on LDPC Coded Irregular Modulation	1088
Jia,Minli He,Zunwen Kuang,Jingming	

ESPRIT algorithm for joint delay and 2- dimensional DOA Estimation of multipath parameters	1093
Ji,Fei Liang,Jian Chen,Fangjiong	
Extraction of Singular and Chaotic Signal with Adaptive Parameters using Optimum Wavelet Receiver	1097
Tan,Xuping	
Face Recognition Based on Manifold Ranking and PCA	1101
Liu,Cuixiang Yu,Ming Gao,Jinyong Sun,Yicai Zhang,yan	
Fast Encoding Algorithm Based on Different Contrast Scales	1105
Fan,Ce	
Full-rate and Low Complexity Space-time Coding Scheme Concatenated with LDPC Codes ...	1109
Yu,Xiangbin Xu,Dazhun Bi,Guangguo	
Genetic Algorithm Based Blind Beamforming for Multiusers	1114
Liu,Yanwu Li,Hongsheng Fan,Hui	
Image Coding Algorithm Based on All Phase Walsh Biorthogonal Transform	1118
Wang,Chengyou Hou,Zhengxin Yang,Aiping	
Improved Joint Data and Channel Estimation for OFDM Systems Using Few Symbols	1124
Su,Wei Pan,Zhiwen Yan,Feng	
Improved Particle Swarm to Nonlinear Blind Source Separation	1128
Wei,Yu Liu,Zhenxing Li,Changhai	
Improving Congestion Control Algorithm in Distributed Spaceflight TT&C Networks	1134
Gong,Changqing Bi,Xiaoxia Wang,Xiaoyan	
Multifold calculations for LLRs in iterative turbo decoding	1138
Li,Jianping Cai,Chaoshi	
Novel Blind Decision Feedback Equalization Algorithm for Wireless Channels	1142
Sun,Lijun Shangguan,Tinghua	
OFDM Bit and Power Allocation Based on Game Theory	1147
Feng,Chen Li,Xu Song,Mei	
Tan,Zhenhui Liu,Huan	
On the Pilot-Symbol Aided Channel Estimation Analysis of Cyclic Delay Diversity for OFDM Systems	1151
Eddie,Bulega Tonny Wei,Gang Chen,Fangjiong	
Outage Probabilities of Imperfect LCMV Beamforming with Dominant Interferer Cancellation ...	1155
Li,Hanyu Yao,Yudong Yu,Jin	
Partial Soft Layered Group Space-Time MUD in MIMO CDMA Systems	1159
Lu,Hoangyang Fang,Wenhsien	
Performance Analysis for Orthogonal Space-Time Block Codes over Correlated MIMO Channels	1163
Lin,Min Liu,JIanguo Qu,Xinbo Yang,Luxi	

Performance Analysis for Vector Quantization of Distributed Source	1167
Wang,Siping Liu,Zhiwen Xu,Yougen	
Performance Analysis of Anti Aiming Noise AM Jamming for Pseudo-random Code Phase Modulation and PAM Combined Fuze	1171
Tu,Youchao Zhao,Huichang Zhou,Xingang	
Polarimetric Radiometer-Retrieved Wind Direction Ambiguity Removal Using Twice-Scan Schedule	1175
Yin,Xiaobin Wang,Zhenzhan Liu,Jingyi Jiang,Jingshan	
QPSK/OQPSK Signal Detection with IF AGC On LEO Satellite	1179
Chen,Xiaoting Zhao,Guodong Jin,Ping	
Gong,Wenbin Liu,Huijie Liang,Xuwen	
Space-Time Block Codes from Coordinate Symmetric Super-Orthogonal Designs	1183
Li,Zhengquan Li,Lin Sun,Feng Pan,Libing Wang,Zigang	
Target Detection Method of the LFM Radar Signal with Multiple Polarization Agility	1186
Song,Lizhong Wu,Qun Mu,Yinan	
The Analysis and Simulation Research of Distance Resolution and Ambiguity Property of LFM Signal	1191
Zhang,Xiuqiang Su,Donglin Zhou,Min	
The Detection and Tracking of Weak Frequency Line Based on Double-detection Algorithm ...	1195
Lu,Mingzhi Li,Meng Mao,Weining	
The Pattern Recognition of Radar Signal by Self-Adapted Wavelet	1199
Li,Chungeng Zhang,Cuifen	
The Solution to Array Signal Ambiguity Base on High Order Cumulate	1204
Han,Yong Cao,Yang Yang,Junwei Qiao,Xiaolin	
Threshold-based ML Channel Estimation for OFDM System in Sparse Wireless Channel	1208
Shu,Feng Han,Yubin Bi,Yifeng Cheng,Shixin	
Visualization of High Dynamic Range Image with Retinex Algorithm	1215
Lei,Ling Zhou,Yinqing Li,Jingwen	
Waveform Analysis of PRPPM-PRBC Compound Systemic Fuze	1219
Deng,Jianping Zhao,Huichang Zhou,Xingang	
XML Implementation of Role Based Control in Healthcare Adhoc Networks	1223
Memon,Qurban A. Khoja,Shakeel	
Zero-Watermark Scheme Based on Audio's Statistical Character	1227
Zhong,Xi Tang,Xianghong Yue,Hengli	

EMC and Related Topics

A New Low-Frequency Model of Absorber Array Founded by Transmission/Reflection Method	1231
Xu,Hongyan Wang,Guodong Wang, Huashen	

A Novel Method to Evaluate the Effectiveness of Communications Jamming	1235
Yang,Fei Sha,Fei Song,Qizhu Wang,Junfeng	
A universal estimating and measurement method of EMI	1239
Gong,Fengxun Ma,Yanqiu	
An integrated approach to mobile network design	1243
Boella,Francesco Giuliani,Livio	
Analysis of Coupled or Single Nonuniform Transmission Lines Using the Equivalent Sources Method	1247
Mohammad,KhalajAmirhosseini	
Analysis of Passive Intermodulation Interference in GSM Mobile Communication Antennas ...	1251
Zhang,Shiquan Wu,Qindong Liang,Jintao Ge,Debiao	
Analysis of Radiating Electric Field for Indoor Broadband Power Line Communication	1255
Yang,Biao Lv,Yinghua Zhang,Hongxin	
Analysis of Time-Hopping UWB Interference Effect on GPS Receivers	1258
Tian,Tian Song,Qijun Zhang,Hongshun	
Architecture of Exposure Systems in the Range of the Microwaves for Biological Applications	1263
Bedini,A Giliberti,C Palomba,R. D'Emilia,E. Giuliani,L.	
Calculation and Experimental Validation of 3-D Parallel Plate Sensor for Transient Electric Field Measurement	1267
Xu,Yuanzhe Gao,Cheng Li,Yanxin	
Chang,Yunfen Zhou,Bihua	
Effect of pH Value on Microstructure and Magnetic properties of NiZn ferrite thin films	1272
Liu,Changhui Shen,Xiang He,Huahui	
Electromagnetic Parameters Test System Based on A Refined NRW Transmission/Reflection Algorithm	1276
Wang,Huashen Jiang,Shan Wang,Guodong Xu,Ke	
Electronic Field and Characteristics Impedance in ATEM Cell with Metallic Rectangular EUT	1281
Xian,Jinglong Wu,Haiyan Wang,Shengxuan	
Estimating Radiated Emission via Conducted Analysis	1284
Cao,Jingyang Su,Donglin Xie,Shuguo	
Extraction of Calibration Waveform for Confocal Microwave Imaging for Early Breast Cancer Detection	1287
Xia,Xiao Kikkawa,Takamaro	
Graphical Presentation of Simulated Field Data for a Hybrid TEM/Reverberation Chamber...	1291
Schlagenhauser,Franz Kay,Paul	
Improve the Effectiveness of Wireless Image Transmission Using Wavelet Transform	1295
Hong,Weijun Li,Shufang	

Influence of Apertures of the Protection Equipment in Power System on Electromagnetic Shielding Effectiveness under the Circumstance of Wireless Communications	1299		
Niu,Bo	Song,Zhengxiang	Wang,Jianhua	
Geng,Yingsan	Jiang,Wencai		
Interference of EFT on monitoring system of coal mine Electric power safety	1303		
Wang,Fuzeng			
Measurement and Analysis of Conduction EMI in Substation and Design of Power Filter ...	1307		
Liu,Yang	Cui,Xiang		
Measurement of Isolation between Antennas Mounted on Aircraft	1311		
Wang,Bingqie	Quan,Limin	Su,Donglin	
Measurement of Surface EM Field of Planar Circuit in Microwave Frequency	1315		
Chen,Chunping	Ma,Zhewang	Anada,Tetsuo	
Hsu,Juipang	Xu,Deming		
Noise Spark Current Level Caused by Capacitive Discharge In an Automotive Secondary Ignition System	1319		
Li,Xu	Yu,Jihui	Li,Yongming	
Wang,Quandi	Deng,Qianfeng	Zhang,Yan	
Nonlinear Propagation of High Power Microwave in Ionosphere	1323		
Rao,Yuping	Lin,Jingyu		
Numerical Simulation on EMI of Wire	1326		
Yu,Jihui	Zou,Zhixing	Li,Yongming	
Wang,Quandi	Li,Xu	Zhang,Yan	
Research on the Harmonics Tester Based on Modern DSP Technology	1330		
Wang,song	Zhang,Xiaodong	Li,Na	Chen,Xinjun
Simulation and research of the coupling characteristic of a cavity with Thin-Slot	1335		
Li,Yongming	Geng,Lidong	Yu,Jihui	
Wang,Quandi	Li,Xu		
Simulation investigation of C-Band Magnetically Insulated Line Oscillator	1339		
Guo,Yanhua	Fan,Zhikai	He,Hu	
Simulation of the EMP Coupling to Circuits inside a Shielding Box by a Wire Penetrated with an Aperture	1345		
Li,Xu	Yu,Jihui	Li,Yongming	
Wang,Quandi	Deng,Qianfeng	Zhang,Yan	
Simulation of the Field Uniformity of Anechoic Chamber	1349		
Chen,jiakui	Wen,Yinghong		
Subcell FDTD for Computing the Cutoff Frequency of the Waveguide Loaded with Electrically Thin Dispersive Layer	1353		
Jiao,Chaoqun	Li,Lin	Cui,Xiang	Zhao,Zhibin
Test on Lightning Characteristics of Electronic Equipment's Power Supply	1357		
Chai,Yajing	Zhou,Wenjun	He,Ruidong	Zhao,Luxing

The EMC Design for the HEV Drive System	1361
Wu,Qingyu Zhang,Xiaodong Wang,Lei Zhu,Xi	
The Interference with Airborne Radios of Time-Hopping Impulse Radio	1365
He,Xin Zhang,Xiaolin Song,Qijun	
The Simulation and Research on Electromagnetic Character and Coupling Degree of Vehicle Whip Antennas	1371
Yu,Jihui Ma,Xiaolei Wang,Quandi	
Li,Yongming Li,Xu Zheng,Yali	

Micro-Electronic Devices, Circuits, and Systems for Wireless Applications

A 0.35- μm BiCMOS Automatic Gain Control IF Amplifier For Radar Receivers	1375
Yuan,Quan Wang,Zhigong Li,Qin	
A 1.5V Low Power CMOS LNA Design	1379
Hong,Qi Zhang,Jie	
A New Methodology Protect Smart Cards from DPA	1383
Li,Haijun Zhou,Tao Lu,Huiling Liu,Xiaoxiao	
A Support Vector Machine Method for Electrothermal Modeling of Power FETs	1387
Guo,Yunchuan Xu,Yuehang Wang,Lei Xu,Ruimin	
Adaptive Digital Predistorter for Radio Frequency Power Amplifier Linearization	1390
Xu,Lingjun Wu,Xiaoguang, Wang,Qiang Zhang,Ping	
Auto Power Control Circuit for Laser Diode Driver	1394
Jiang,Xiang	
Crosstalk on Sampling Clock and Additive Dither in Radio Receiver IF Digitization	1398
Sun,Lei An,Jianping Wu,Yanbo	
Design of Transceiver for TETRA in UHF Band	1404
Kang,Minsoo Song,MyungSun Oh,SeungHyeub	
Design on micro power dissipation E/D NMOS reference Source	1408
Hu,Yonggui Hu,Gangyi Zhu,Dongmei	
Xu,Yun Yu,Jingfeng	
Direct Decomposing Modulation Phase in GSM Passive Radar	1412
Yang,Yunfu Wang,Zhaohui Tao,Ran Wang,Yue	
Estimation of Maximum Power Supply Noise in DSM Designs Including parasitic Effects ...	1416
He,Jianchun Jia,Lixin Liu,Sheng	
Optimal Polarization for SINR equation in partially polarized Case	1420
Yang,Yunfu Wang,Zhaohui Tao,Ran Wang,Yue	
Performance Analysis of Anti Noise FM Jamming of Pseudo-random Code Binary Phase Modulation Fuze Based on Doppler Effect	1424
Zhou,Xingang Zhao,Huichang Tu,Youchao	

Performance and analysis of CML Logic gates and latches	1428
Sumathi,M. Kartheek,.Y.C	
Research on Tracking Arithmetic of Six- stance Electromagnetic Sensitivity Position System	1433
Yin,Qin Chen,Bin Wang,Ying Huang,Liuhong	
Sensitivity analysis and optimization for high-speed circuit Systems	1437
Dou,Lei Wang,Zhiquan	
Study on Ripple of Output Voltage of Chaotic Power Converter	1442
Zhou,Weiying Qiu,Shuisheng Zhu,Hui	
Subthreshold Characteristic of Double- gate Accumulation-mode SOI PMOSFET	1446
Zhang,Zhengfan Li,Zhaoji Tan,Kaizhou Zhang, Jiabin	
Threshold voltage model of deep submicrometer double-gate fully-depleted SOI MOS devices	1450
Zhang,Zhengfan Fang,Jian Li,Ruzhang	
Zhang,Zhengyuan Li,Zhaoji	

Remote Sensing

2-D Frequency Spectrum Features and Error Analysis for Interferometric Passive Microwave Imager	1454
Pan,Bei Wu, Ji	
A Novel Method for Extraction of Micro-Doppler Signal	1458
Luo, Ying Chi, Long Zhang, Qun Jin, Yaqiu	
Consideration on Accuracy and Efficiency of Two-Scale Polarimetric Emissivity Model Used for Oceanic Passive Microwave Remote Sensing	1463
Wang, Zhenzhan Yin, Xiaobin Liu, Jingyi Jiang, Jingshan	
Determination of the Melting Layer from Meteorological Radar Data in Malaysia	1467
Khamis, Nor Hisham Haji Sharif, Omer Abdel Razag	
Hanzaz, Zakaria Baharom, Ameruddin	
Effect of Roll Angle Error on Spaceborne ScanSAR Radiometric Calibration in Range	1471
Wei, Jie Chen, Houjin	
Evaluation of SAR jamming performance	1476
Wu, Xiaofang Dai, Dahai Wang, Xuesong Lu, Huanzhang	
Image reconstruction of uniform circular array synthetic Aperture radiometer	1481
Huang, Jian Gan, Tigu	
Recent Advancements of Multi-modal Radar & SAR Imaging	1485
Boerner, Wolfgang-Martin	
Relationship between Satellite Attitude Jitter and ScanSAR Mosaic	1489
Wei, Jie Chen, Houjin	
Study about Classification of Multi-Spectral Remote Sensing Images	1494
Tao, Jun	

Super-Resolution of Polarimetric SAR Images for Ship Detection	1499
Chen,Jiong Yang,Jian	
Unsupervised Classification of Polarimetric SAR Images by Gamma-Correction of Features using Self Organizing Map	1503
Khan,KamranUllah Yang,Jian	