

Prof. ŞİMŞEK DEMİR

Personal Information

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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey
1993 - 1998

Postgraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey
1991 - 1993

Undergraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
Turkey 1987 - 1991

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Noise analysis and low noise design of feed structures for active and passive antenna arrays, Middle East
Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1998

Postgraduate, Wideband mmic amplifier design, Middle East Technical University, Faculty of Engineering, Elektrik-
Elektronik Mühendisliği Bölümü, 1993

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2013 -
Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
2006 - 2013

Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
2000 - 2006

Lecturer, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1996 - 2000

Research Assistant, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
1991 - 1996

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2013

Advancing Researches

- Akın T., Demir Ş., PACKAGING OF RF MEMS SWITCHES AND PERFORMANCE IMPROVEMENT, Doctorate, İ.COMART(Student), 2019
- DEMİR Ş., GAN-HEMT based KU-band RF power amplifier design for SATCOM applications, Postgraduate, A.Mert(Student), 2019
- DEMİR Ş., Analysis and design of slow wave structure for backward wave oscillators, Postgraduate, D.ESER(Student), 2019
- DEMİR Ş., Detection of electro-explosive detonators by RF signature, Doctorate, Ö.Kılıç(Student), 2019
- DEMİR Ş., High power magnetron design and electron emission characteristics, Postgraduate, M.Cemal(Student), 2018
- DEMİR Ş., Development of a tuner topology for multiharmonic matching and implementation on tunable dual band power amplifier design, Doctorate, H.HÜSEYİN(Student), 2018
- DEMİR Ş., Frequency and phase locking of oscillators and magnetrons, Postgraduate, I.SALUR(Student), 2018
- DEMİR Ş., High power magnetron design and electron emission characteristics, Postgraduate, M.CEMAL(Student), 2018
- DEMİR Ş., Beam modulation in double gap virtual cathode oscillator, Postgraduate, İ.SEMİH(Student), 2018
- DEMİR Ş., Design of miniaturized Ku band narrowband cavity filter, Doctorate, Y.SEVİNÇ(Student), 2018
- DEMİR Ş., An axially extracted virtual cathode oscillator design and characterization, Postgraduate, B.TİMUR(Student), 2018
- YERÇİ S., DEMİR Ş., Optical system design of direct detection short-pulsed laser proximity sensor, Postgraduate, E.Korkmaz(Student), 2017
- DEMİR Ş., Implementation of direction finding with frequency diverse array, Postgraduate, A.TURHANER(Student), 2017
- DEMİR Ş., Broadband microwave diode mixer design and implementation, Postgraduate, E.KOÇ(Student), 2016
- DEMİR Ş., Comparative design of millimeter wave RF-MEMS phase shifters, Postgraduate, E.KOBAL(Student), 2016
- DEMİR Ş., X-band high power gan power amplifier design and implementation, Postgraduate, A.İLKER(Student), 2016
- AKIN T., DEMİR Ş., Design of an x-band 3-bit rf mems constant phase shifter, Postgraduate, A.KUZUBAŞLI(Student), 2016
- DEMİR Ş., Development of beam scheduling algorithm for frequency diverse array /, Postgraduate, R.ÇETİNER(Student), 2015
- DEMİR Ş., Medium power-wideband envelope tracking RF power amplifier design, Postgraduate, E.ŞİRİN(Student), 2015
- DEMİR Ş., Design and implementation of a microwave cavity resonator for modulated backscattered wave, Postgraduate, A.AKKOÇ(Student), 2015
- KOÇ S. S. , DEMİR Ş., Analysis of frequency diverse arrays for radar and communication applications, Doctorate, Ç.ÇETİNTEPE(Student), 2015
- DEMİR Ş., Countermeasure methods for high power microwave pulses /, Postgraduate, M.KESKİN(Student), 2014
- DEMİR Ş., Design and realization of microstrip linear antenna array based on SIW (Substrate integrated waveguide) feed network, Postgraduate, A.ÖZGÜN(Student), 2014
- DEMİR Ş., Experimental performance evaluation of direction finding by amplitude comparison for GSM applications /, Postgraduate, S.KARADAĞ(Student), 2014
- DEMİR Ş., Modeling of time domain represented signals with multitone signals, Postgraduate, G.CANSIZ(Student), 2014
- DEMİR Ş., Simulation and design of electron gun for travelling wave tube with particle in cell code, Postgraduate, F.ECE(Student), 2014
- DEMİR Ş., Design and realization of microstrip linear antenna array based on siw (substrate integrated waveguide) feed network /, Postgraduate, A.Özgün(Student), 2014
- YILDIRIM N., DEMİR Ş., Design of high power waveguide limiter /, Postgraduate, A.YILMAZ(Student), 2014
- DEMİR Ş., Assessment of shielding effectiveness by using electromagnetic topology method, Postgraduate, H.İBRAHİM(Student), 2013
- DEMİR Ş., Innovative approaches in Doherty amplifier design for higher efficiency and wider frequency bandwidth, Doctorate, N.ŞAHAN(Student), 2013
- DEMİR Ş., Improving the efficiency of microwave power amplifiers without linearity degradation using load and bias tuning in a new configuration, Doctorate, A.RONAGHZADEH(Student), 2013
- DEMİR Ş., True-time delay structures for microwave beamforming networks in S-band phased arrays, Postgraduate, K.TEMİR(Student), 2013
- DEMİR Ş., PHASED ARRAY ANTENNA CALIBRATION AND EXPERIMENTAL VALIDATION, Postgraduate, A.YALIM(Student), 2013

YILDIRIM N., DEMİR Ş., Design and realization of high power low loss combiners, Postgraduate, G.SUNA(Student), 2013

DEMİR Ş., Identification of memory terms in a power amplifier, Postgraduate, E.DURSUN(Student), 2013

DEMİR Ş., Design and implementation of wideband stripline circulators, Postgraduate, G.YILMAZ(Student), 2012

DEMİR Ş., Precise height estimation by differential amplitude measurement for an airborne CW doppler proximity sensor, Doctorate, A.VURAL(Student), 2012

DEMİR Ş., Broadband spatial power combining in coaxial medium, Postgraduate, Z.TANÇ(Student), 2012

DEMİR Ş., Broadband phase shifter realization with surface micromachined lumped components, Postgraduate, K.KAAN(Student), 2012

DEMİR Ş., Low loss substrate integrated waveguide n-way power divider, Doctorate, P.MOHAMMADI(Student), 2012

DEMİR Ş., X-band high power solid state RF switch, Postgraduate, K.GÜZEL(Student), 2012

DEMİR Ş., X-band RF switch implementation in substrate integrated waveguide, Doctorate, T.ERDÖL(Student), 2012

DEMİR Ş., Linearization of RF power amplifiers by using memory polynomial digital predistortion technique, Postgraduate, G.ERDOĞDU(Student), 2012

DEMİR Ş., A new approach for distributed amplifier design, Postgraduate, İ.GÖKHAN(Student), 2012

DEMİR Ş., A conceptual evaluation of frequency diverse arrays and novel utilization of LFM CW, Doctorate, T.EKER(Student), 2011

DEMİR Ş., Linearization of RF power amplifiers with memoryless baseband predistortion method, Postgraduate, T.KOLCUOĞLU(Student), 2011

DEMİR Ş., Modeling of asymmetric intermodulation distortion and memory effects of power amplifiers, Doctorate, A.HAYRETTİN(Student), 2011

DEMİR Ş., Design and fabrication of a high gain, broadband microwave limiting amplifier module, Postgraduate, H.HÜSEYİN(Student), 2011

AKIN T., DEMİR Ş., Reliability improvement of RF MEMS devices based on lifetime measurements, Postgraduate, O.DOĞAN(Student), 2010

DEMİR Ş., Design and implementation of a broadband I-Q vector modulator and a feedforward linearizer for V/UHF band, Postgraduate, A.ÜNLÜ(Student), 2010

DEMİR Ş., HMIC miniaturization techniques and application on an FMCW range sensor transceiver, Postgraduate, H.KORKMAZ(Student), 2010

AYDIN ÇİVİ H. Ö. , DEMİR Ş., X-band high power ferrite phase shifters, Postgraduate, H.İLHAN(Student), 2010

AKIN T., DEMİR Ş., Development of MEMS technology based microwave and millimeter-wave components, Postgraduate, Ç.ÇETİNTEPE(Student), 2010

DEMİR Ş., Wideband phase shifter for 6-18 GHz applications, Postgraduate, G.BOYACIOĞLU(Student), 2010

DEMİR Ş., Defected ground structure and its applications to microwave devices and antenna feed networks, Postgraduate, Ö.KILIÇ(Student), 2010

DEMİR Ş., L-Band & S-Band CW Hybrid Gallium Nitride HEMT Power Amplifier Design, Postgraduate, A.AKTUĞ(Student), 2010

AKIN T., DEMİR Ş., Zero-level packaging of microwave and millimeterwave mems components, Postgraduate, İ.COMART(Student), 2010

DEMİR Ş., Design and implementation of low phase noise phase locked loop based local oscillator, Postgraduate, M.ALPEREN(Student), 2009

DEMİR Ş., S-band hybrid 4 bit phase shifter using cots components, Postgraduate, E.ERKEK(Student), 2009

DEMİR Ş., Milimeterwave FMCW radar design, Postgraduate, D.İÇÖZ(Student), 2009

AKIN T., DEMİR Ş., NOVEL IMPEDANCE TUNER, PHASE SHIFTER, AND VECTOR MODULATORS USING RF MEMS TECHNOLOGY, Doctorate, M.ÜNLÜ(Student), 2009

DEMİR Ş., Cascaded, reactively terminated, single stage distributed amplifier, Postgraduate, O.Efe(Student), 2008

DEMİR Ş., Cascaded, reactively terminated, single stage distributed 2-18 GHz amplifier, Postgraduate, O.EFE(Student), 2008

DEMİR Ş., Theory and design of microwave fet frequency triplers, Postgraduate, İ.BOZKURT(Student), 2008

DEMİR Ş., CFAR detection in K-distributed sea clutter, Postgraduate, A.ÇETİN(Student), 2008

DEMİR Ş., Range resolution improvement of FMCW radars, Postgraduate, S.KURT(Student), 2007

AKIN T., DEMİR Ş., Design and fabrication of RF MEMS switches and instrumentation for performance evaluation,

Postgraduate, H.İBRAHİM(Student), 2007

DEMİR Ş., Millimeter wave MMIC amplifier linearization by predistortion, Postgraduate, B.Çağlar(Student), 2006

AKIN T., DEMİR Ş., Design and implementation of microwave lumped components and system integration using MEMS technology, Postgraduate, E.UFUK(Student), 2006

DEMİR Ş., X band 7 BIT MMIC phase shifter design, Postgraduate, E.ERÇİL(Student), 2006

DEMİR Ş., Millimeter wave MMIC amplifier linearization by predistortion, Postgraduate, B.ÇAĞLAR(Student), 2006

DEMİR Ş., X-band 7 bit mmic phase shifter design, Postgraduate, E.Erçil(Student), 2006

ALATAN L., DEMİR Ş., Re-configurable microstrip patch antennas controlled by RF mems switches, Postgraduate, S.ONAT(Student), 2006

DEMİR Ş., Multi-tone representation of arbitrary waveforms and application to the analysis of nonlinear amplifiers and feedforward linearizers, Postgraduate, A.MUTLU(Student), 2005

TANIK Y., DEMİR Ş., Design of an FM-CW radar altimeter, Postgraduate, Y.BARIŞ(Student), 2005

DEMİR Ş., CMOS class-e power amplifier modelling and design including channel resistance effects, Postgraduate, İ.DEMİR(Student), 2004

DEMİR Ş., Mimic vector modulator design, Postgraduate, M.Altuntaş(Student), 2004

DEMİR Ş., MMIC vector modulator design, Postgraduate, M.ALTUNTAŞ(Student), 2004

DEMİR Ş., Cmos class e power amplifier modelling and design including channel resistance effects, Postgraduate, İ.Demir(Student), 2004

DEMİR Ş., Stochastic characterization and mathematical analysis of feedforward linearizers, Doctorate, A.HAKAN(Student), 2003

DEMİR Ş., Novel microwave equal and unequal power divider and combiner structures, Doctorate, E.TURAN(Student), 2003

AKIN T., DEMİR Ş., An adjustable impedance matching network using RF MEMS technology, Postgraduate, M.ÜNÜLÜ(Student), 2003

DEMİR Ş., An Approach of thinning planar phased array antenna by using finite difference method, Postgraduate, A.CEMİL(Student), 2002

DEMİR Ş., An approach of thinning planar phased array antenna by using finite difference method., Postgraduate, A.Cemil(Student), 2002

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Compact Size, and Highly Sensitive, Microwave Sensor for Non-Invasive Measurement of Blood Glucose Level**
 Mohammadi P., Mohammadia A., DEMİR Ş., KARA A. G.
 IEEE Sensors Journal, vol.21, no.14, pp.16033-16042, 2021 (Journal Indexed in SCI)
- II. **Development and Modeling of a Wafer-Level BCB Packaging Method for Capacitive RF MEMS Switches**
 Comart I., Cetintepe C., Sagioglu E., DEMİR Ş., AKIN T.
 JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, vol.28, no.4, pp.724-731, 2019 (Journal Indexed in SCI)
- III. **Highly efficient dual-band GaN power amplifier utilising pin diode-based tunable harmonic load matching**
 Kilic H. H. , Demir S.
 IET MICROWAVES ANTENNAS & PROPAGATION, vol.13, no.1, pp.63-70, 2019 (Journal Indexed in SCI)
- IV. **Investigation of graphene-integrated tunable metamaterials in THz regime**
 DEMİR Ş., Yuksek Y., Sabah C.
 PRAMANA-JOURNAL OF PHYSICS, vol.90, no.5, 2018 (Journal Indexed in SCI)
- V. **A folded leg Ka-band RF MEMS shunt switch with amorphous silicon (a-Si) sacrificial layer**
 Demirel K., Yazgan E., Demir Ş., Akın T.
 MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, vol.23, pp.1191-1200, 2017 (Journal Indexed in SCI)

- VI. **A New Temperature-Tolerant RF MEMS Switch Structure Design and Fabrication for Ka-Band Applications**
Demirel K, Yazgan E., Demir Ş., Akın T.
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, vol.25, pp.60-68, 2016 (Journal Indexed in SCI)
- VII. **Cantilever type radio frequency microelectromechanical systems shunt capacitive switch design and fabrication**
Demirel K, Yazgan E., Demir Ş., Akın T.
JOURNAL OF MICRO-NANOLITHOGRAPHY MEMS AND MOEMS, vol.14, 2015 (Journal Indexed in SCI)
- VIII. **A fabrication process based on structural layer formation using Au-Au thermocompression bonding for RF MEMS capacitive switches and their performance**
Cetintepe C., Topalli E. S. , Demir Ş., Civi O. A. , Akın T.
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, vol.6, pp.473-480, 2014 (Journal Indexed in SCI)
- IX. **Multipath Characteristics of Frequency Diverse Arrays Over a Ground Plane**
Cetintepe C., DEMİR Ş.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.62, no.7, pp.3567-3574, 2014 (Journal Indexed in SCI)
- X. **Microwave Characterization of a Wafer-Level Packaging Approach for RF MEMS Devices Using Glass Frit Bonding**
Comart I., Topalli K., DEMİR Ş., AKIN T.
IEEE SENSORS JOURNAL, vol.14, no.6, pp.2006-2011, 2014 (Journal Indexed in SCI)
- XI. **A low-order nonlinear amplifier model with distributed delay terms**
YÜZER A. H. , DEMİR Ş.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, no.4, pp.1007-1016, 2014 (Journal Indexed in SCI)
- XII. **Height Estimation for Ballistic Platforms using Differential Measurements**
Vural A., Sengul O., DEMİR Ş., Hizal A.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.49, no.4, pp.2657-2665, 2013 (Journal Indexed in SCI)
- XIII. **A 15-40-GHz Frequency Reconfigurable RF MEMS Phase Shifter**
Ünlü M., Demir Ş., Akın T.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.61, pp.2865-2877, 2013 (Journal Indexed in SCI)
- XIV. **Exploitation of Linear Frequency Modulated Continuous Waveform (LFMCW) for Frequency Diverse Arrays**
Eker T., DEMİR Ş., Hizal A.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.61, no.7, pp.3546-3553, 2013 (Journal Indexed in SCI)
- XV. **Triple stub circuit topology as simultaneous insertion phase, amplitude and impedance control circuit for phased array applications**
Unlu M., Demir Ş., Akın T.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.6, pp.1399-1406, 2012 (Journal Indexed in SCI)
- XVI. **E-plane sectoral horn power divider**
Secmen M., DEMİR Ş., Hizal A.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.4, no.2, pp.191-199, 2010 (Journal Indexed in SCI)
- XVII. **Hybrid connection of RF MEMS and SMT components in an impedance tuner**
Unlu M., Topalli K., Atasoy H. I. , Demir Ş., Civi O. A. , Akın T.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.64, pp.748-756, 2010 (Journal Indexed in SCI)
- XVIII. **Tunable dual-frequency RF MEMS rectangular slot ring antenna**
Topalli K., Erdil E., Civi O. A. , Demir Ş., Koc S., Akın T.

- SENSORS AND ACTUATORS A-PHYSICAL, vol.156, pp.373-380, 2009 (Journal Indexed in SCI)
- XIX. **EMPIRICAL FORMULATION OF BRIDGE INDUCTANCE IN INDUCTIVELY TUNED RF MEMS SHUNT SWITCHES**
Topallı K., ÜNLÜ M., Atasoy H. İ. , AYDIN ÇİVİ H. Ö. , DEMİR Ş., AKIN T.
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.97, pp.343-356, 2009 (Journal Indexed in SCI)
- XX. **A monolithic phased array using 3-bit distributed RF MEMS phase shifters**
Topallı K., Civi O. A. , Demir Ş., Koc S., Akın T.
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.56, pp.270-277, 2008 (Journal Indexed in SCI)
- XXI. **Zero crossing counter for accuracy improvement of FMCW range detection**
Kurt S., DEMİR Ş., Hizal A.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.16, no.2, pp.125-132, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Prospects of FMCW-based frequency diverse array radar**
Cetiner R., Cetintepe C., DEMİR Ş., Hizal A.
JOURNAL OF ENGINEERING-JOE, vol.2019, no.21, pp.7299-7303, 2019 (Journal Indexed in ESCI)
- II. **Space scanning FMCW-based two-dimensional frequency diverse array radar**
KARADAĞ S., DEMİR Ş., Hizal A.
JOURNAL OF ENGINEERING-JOE, vol.2019, no.20, pp.6452-6456, 2019 (Journal Indexed in ESCI)
- III. **Waveguide multiplexer: miniaturized contiguous-band six-channel multiplexer structure**
Sevinc Y., DEMİR Ş.
JOURNAL OF ENGINEERING-JOE, 2017 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Multi-Box Behavioural Mixer Model and its Validation using Measurements**
Ozgun A., Nesimoglu T., DEMİR Ş.
IEEE-MTT-S International Microwave Symposium (IMS), Massachusetts, United States Of America, 2 - 07 June 2019, pp.607-610
- II. **Design and Implementation of Transmitting and Receiving Antenna Pair on Flat Ring Surface**
Haykır Y., Karadag S., Dagdeviren B., Demir S.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.36-38
- III. **Design Studies of Axial Vircator for High Power Microwave Generation**
KÜÇÜK İ. S. , TİMUR B., Tanc Z., DEMİR Ş.
4th International Electromagnetic Compatibility Conference (EMC Turkiye), Ankara, Turkey, 24 - 27 September 2017
- IV. **Non-Uniformly Spaced Planar Phased Array Antenna for Ku-Band Mobile Direct Broadcasting Satellite Reception Systems**
Sahin L., Ozyurt E., Kapsuz K. Y. , DEMİR Ş., Sen Y., Oguz U.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.203-207
- V. **Monopulse Direction Finding For Linear Frequency Modulation Based Frequency Diverse Array**
Turhaner A., DEMİR Ş., Hizal A.
IEEE Radar Conference (RadarConf), Washington, United States Of America, 8 - 12 May 2017, pp.89-94
- VI. **Range and Angle Measurement in a Linear Pulsed Frequency Diverse Array Radar**
Cetiner R., DEMİR Ş., Hizal A.

IEEE Radar Conference (RadarConf), Washington, United States Of America, 8 - 12 May 2017, pp.64-67

VII. Ka-Band Phased Array Antenna with Circular Rim

Bayraktar O., Sevinc Y., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S.

IEEE International Symposium on Antennas and Propagation / USNC/URSI National North American Radio Science Meeting, Vancouver, Canada, 19 - 24 July 2015, pp.2479-2480

VIII. RF MEMS Based Millimeter Wave Phased Array for Short Range Communication

Bayraktar O., Kobal E., Sevinc Y., Cetintepe C., Comart I., Demirel K., Topalli E. S. , Akın T., Demir Ş., Civi O. A.

9th European Conference on Antennas and Propagation EuCAP, Lisbon, Portugal, 13 - 17 May 2015

IX. 15 W Power Amplifier Modules Using Coaxial Waveguide Combining by Planar Probes

Suna G., Eker T., Akkul M., Incebacak M., Demir S., Ylilitim N.

IEEE Antennas-and-Propagation-Society International Symposium (APSURSI), Tennessee, United States Of America, 6 - 11 July 2014, pp.647-648

X. Examination of Target RCS Characteristics in FDA Radars

Cetintepe C., DEMİR Ş.

IEEE Antennas-and-Propagation-Society International Symposium (APSURSI), Tennessee, United States Of America, 6 - 11 July 2014, pp.1754-1755

XI. Comparison of Efficient Power Combining Techniques

Suna G., Akkul M., DEMİR Ş., YILDIRIM N.

Joint USNC-URSI Radio Science Meeting / AP-S Symposium, Tennessee, United States Of America, 6 - 11 July 2014, pp.216

XII. Memory Polynomial with Shaped Memory Delay Profile and Modeling the Thermal Memory Effect

YÜZER A. H. , Bassam S. A. , Ghannouchi F. M. , DEMİR Ş.

2013 IEEE International Conference on Electronics, Circuits, and Systems, Abu Dhabi, United Arab Emirates, 8 - 11 December 2013, pp.585-588

XIII. A Fabrication Process Flow for Stacked Structural Layer Formation Using Au Au

Thermocompression Bonding for RF MEMS Capacitive Switches

Topalli E., Çetintepe Ç., Aydın Çivi H. Ö. , Demir Ş., Akın T.

14th Int. Symposium on RF-MEMS and RF-Microsystems, Potsdam, Germany, 1 - 03 July 2013

XIV. Calibration Quality Analysis of Phased Array Antennas

Kilic O., Yalim A., Cetintepe C., DEMİR Ş.

IEEE International Symposium on Antennas and Propagation, Illinois, United States Of America, 8 - 14 July 2012

XV. Reconfigurable antennas using RF-MEMS research in Turkey

Civi O. A. , Demir Ş., Akın T.

2011 IEEE MTT-S International Microwave Symposium, IMS 2011, Baltimore, MD, United States Of America, 5 - 10 June 2011

XVI. 35 GHz phased array antenna using DMTL phase shifters

Guclu C., Cetintepe C., Civi O. A. , DEMİR Ş., AKIN T.

2010 10th Mediterranean Microwave Symposium, MMS 2010, Guzelyurt, Cyprus (Gkry), 25 - 27 August 2010, pp.114-117

XVII. X band High Power Ferrite Phase Shifter

Altan H., AYDIN ÇİVİ H. Ö. , DEMİR Ş.

10th Mediterranean Microwave Symposium (MMS 2010), 25 - 27 August 2010

XVIII. Behavioral Modeling of Asymmetric Intermodulation Distortion of Nonlinear Amplifier

Yuzer A. H. , DEMİR Ş.

Progress in Electromagnetics Research Symposium, Cambridge, Canada, 5 - 08 July 2010, pp.1115-1119

XIX. A New Phase Measurement Technique for RF Power Amplifier Only Measuring Magnitudes

Yuzer A. H. , DEMİR Ş.

Progress in Electromagnetics Research Symposium, Cambridge, Canada, 5 - 08 July 2010, pp.170-173

XX. RF MEMS Teknolojisi ile S Bandı Tümlüşik Bant Geçiren Filtre Yapısı

ÇETİNTEPE Ç., DEMİR Ş., AKIN T.

URSI-Türkiye 2008 4. Bilimsel Kongresi, Antalya, Turkey, 20 - 22 October 2008, pp.137-140

- XXI. Reconfigurable RF MEMS Devices and Antennas**
Kaan T., Ünlü M., İstanbulluoğlu İ., Atasoy H. İ., Bayraktar Ö., Aydın Çivi H. Ö., Demir Ş., Koç S. S., Akın T.
5th International Conference on Electrical and Electronics Engineering (ELECO 2007), Bursa, Turkey, 5 - 09 December 2007
- XXII. Beam switching reflectarray using RF MEMS technology**
Bayraktar O., Topalli K., Unlu M., Civi O., Demir Ş., Akın T.
2nd European Conference on Antennas and Propagation, EuCAP 2007, Edinburgh, United Kingdom, 11 - 16 November 2007, vol.2007
- XXIII. Monolithically Integrated MEMS Phased Array**
Topalli K., Aydın Çivi H. Ö., Demir Ş., Koç S. S., Akın T.
Proceedings of 8th International Symposium on RF MEMS and RF Microsystems, MEMSWAVE, Barcelona, Spain, 26 - 29 June 2007, pp.119-122
- XXIV. Dual-frequency reconfigurable slot dipole array with a CPW-based feed network using RF MEMS technology for X- and Ka-band applications**
Topalli K., Civi Ö. A., Demir Ş., Koc S., Akın T.
2007 IEEE Antennas and Propagation Society International Symposium, AP-S, Honolulu, HI, United States Of America, 10 - 15 June 2007, pp.825-828
- XXV. Investigation of on-wafer TRL calibration accuracy dependence on transitions and probe positioning**
Atasoy H., Unlu M., Topalli K., İstanbulluoğlu I., Temocin E., Bayraktar O., Demir Ş., Civi O., Koç S. S., Akın T.
36th European Microwave Conference, EuMC 2006, Manchester, United Kingdom, 10 - 12 September 2006, pp.1582-1585
- XXVI. A reconfigurable RF MEMS triple stub impedance matching network**
Unlu M., Topalli K., Atasoy H., Temocin E., İstanbulluoğlu I., Bayraktar O., Demir Ş., Civi O., Koç S. S., Akın T.
36th European Microwave Conference, EuMC 2006, Manchester, United Kingdom, 10 - 12 September 2006, pp.1370-1373
- XXVII. Design and implementation of a triple-band re-configurable microstrip antenna**
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