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Research Areas

Technical Sciences, Electrical and Electronics Engineering, Electromagnetic, Electromagnetic Waves, Antennas and Propagation

Advising Theses

KOÇ S. S., Derivation and analysis of near field to far field transformation algorithm for spherical scanning, Postgraduate, H.Korkmaz(Student), 2019

KOÇ S. S., Analysis of ring focus reflectors, Postgraduate, H.Özdemir(Student), 2019

KOÇ S. S., Non-Foster impedance matching for electrically small antennas, Postgraduate, O.Tevfik(Student), 2019

KOÇ S. S., Spherical near field antenna measurements, Postgraduate, H.Doğan(Student), 2019

KOÇ S. S., X band TX reject waveguide bandpass filter design for satellite communication systems, Postgraduate, İ.ÇELEBİ(Student), 2018

KOÇ S. S., Dynamic sea clutter simulation at low grazing angles, Postgraduate, M.ZAHİD(Student), 2018

KOÇ S. S., Analysis and design of active annular ring coupled circular patch antenna, Postgraduate, D.GEBEŞOĞLU(Student), 2017

KOÇ S. S., Analysis of near-field ultra-wideband radar imaging algorithms, Postgraduate, A.ARABACI(Student), 2017

CANDAN Ç., KOÇ S. S., Subspace based radar signal processing methods for array tapering and sidelobe blanking, Postgraduate, D.DİNLER(Student), 2017

ALATAN L., KOÇ S. S., Design of smart antenna array for interference suppression in GPS, Postgraduate, Ö.CAN(Student), 2016

KOÇ S. S., Phase locked dielectric resonator oscillator design and fabrication for receiver systems, Postgraduate, R.KÖKSAL(Student), 2016

KOÇ S. S., A Small format microbolometer imaging sensor with digital video outputs, Postgraduate, C.Yalçın(Student), 2016

KOÇ S. S., Design and realization of a 0.5-5 GHz cascaded feedback amplifier, Postgraduate, İ.CEM(Student), 2015

KOÇ S. S., Analysis and design of reactively loaded dual band microstrip antenna, Postgraduate, C.BAYRAM(Student), 2015

DEMİR Ş., KOÇ S. S., Analysis of frequency diverse arrays for radar and communication applications, Doctorate, Ç.ÇETİNTEPE(Student), 2015

YILMAZ A. Ö., KOÇ S. S., Design of an experimental FMCW weather radar, Postgraduate, S.COŞKUN(Student), 2015

KOÇ S. S., Electromagnetic scattering from cluster of spheres using diagonalized vector addition theorem, Doctorate, H.İBRAHİM(Student), 2014

KOÇ S. S., Application of Nyström method for the solution of time domain electric field integral equation, Doctorate, G.SELÇUK(Student), 2014

KOÇ S. S., Broadband loaded dipole antenna design by genetic algorithm optimization, Postgraduate, B.ASAN(Student), 2014

CANDAN Ç., KOÇ S. S., The application of micro doppler features in target classification, Postgraduate, Ö.TOPUZ(Student), 2014

KOÇ S. S., A survey on S-band phase shifters, Postgraduate, B.KIZILTAŞ(Student), 2013

KOÇ S. S., ARMA model based clutter estimation and its effect on clutter suppression algorithms, Postgraduate, G.Tanrıverdi(Student), 2012

KOÇ S. S., Target glint phenomenon analysis and evaluation of glint reduction techniques, Postgraduate, S.BAHTİYAR(Student), 2012

KOÇ S. S., Arma model based clutter estimation and its effect on clutter suppression algorithms, Postgraduate, G.TANRIVERDİ(Student), 2012

KOÇ S. S., Construction of an experimental radar system, Postgraduate, N.KILIÇOĞLU(Student), 2010

DURAL ÜNVER M. G., KOÇ S. S., Comparative evaluation of SAR image formation algorithms, Postgraduate, H.İBRAHİM(Student), 2010

KOÇ S. S., Calibration of uniform circular arrays, Postgraduate, B.Aykanat(Student), 2010

KOÇ S. S., Antenna patterns for detecting slowly moving targets in two channel GMTI processing, Postgraduate, G.YILDIRIM(Student), 2010

KOÇ S. S., Simulation-based comparison of some gmtı techniques, Postgraduate, C.Baktır(Student), 2009

KOÇ S. S., Radar emitter emulation for research and experimental purposes., Postgraduate, M.Bahadır(Student), 2009

KOÇ S. S., Investigation of superdirective antenna arrays, Postgraduate, Y.BAKTIR(Student), 2009

KOÇ S. S., Time domain scattering from single and multiple objects, Doctorate, S.Alp(Student), 2008

KOÇ S. S., Analysis and simulation of the backscattering enhancement phenomenon from randomly distributed point scatterers, Postgraduate, K.ŞAHİN(Student), 2007

KOÇ S. S., Modelling of X-Band electromagnetic wave propagation, Postgraduate, A.Pelgur(Student), 2007

KOÇ S. S., Design, analysis, and implementation of circular disk - annular ring (cdar) antenna, Postgraduate, M.Sancay(Student), 2007

KOÇ S. S., Analysis and design of a circularly polarized microstrip antenna, Postgraduate, M.Taştan(Student), 2006

AKIN T., KOÇ S. S., A novel modeling methodology and performance improvement technique for dmtl phase shifters, Postgraduate, İ.İSTANBULLUOĞLU(Student), 2006

KOÇ S. S., Analysis of pulse diversity in radar systems, Postgraduate, U.KEÇELİOĞLU(Student), 2006

KOÇ S. S., Ray based finite difference method for time domain electromagnetics, Doctorate, M.Çiydem(Student), 2005

KOÇ S. S., Radar propagation modelling using the split step parabolic equation method, Postgraduate, A.TÜRKBOYLARI(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Mutual impedance computation using spherical harmonics between two closely spaced antennas**
Öztürk M. A., KOÇ S. S.
AEU - International Journal of Electronics and Communications, vol.168, 2023 (SCI-Expanded)
- II. **A Compound ECCM Technique for FMCW Radars**
Eser D., DEMİR Ş., Koc S. S.
IEEE Access, vol.11, pp.62942-62954, 2023 (SCI-Expanded)
- III. **Sparse Reconstruction for Near-Field MIMO Radar Imaging Using Fast Multipole Method**
Miran E. A., ÖKTEM S. F., Koc S.
IEEE ACCESS, vol.9, pp.151578-151589, 2021 (SCI-Expanded)
- IV. **VHF suspended plate transmitter antenna design for DVB-T and DAB-T**

- Ali A., Ciydem M., ALTINTAŞ A., Koc S.
 MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.60, no.6, pp.1536-1546, 2018 (SCI-Expanded)
- V. **An Efficient Semianalytical Method for Hypersingularity Treatment Over Curved Patches**
 Selcuk G., KOÇ S. S.
 IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.65, no.5, pp.2740-2744, 2017 (SCI-Expanded)
- VI. **Wavefront-ray grid FDTD algorithm**
 Ciydem M., Koc S.
 TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.3, pp.874-881, 2016 (SCI-Expanded)
- VII. **HIGH ISOLATION DUAL-POLARIZED BROADBAND ANTENNA FOR BASE STATIONS**
 Ciydem M., Koc S.
 MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.57, no.3, pp.603-607, 2015 (SCI-Expanded)
- VIII. **USE OF GEOMETRICAL OPTIC METHODS FOR DISADVANTAGES OF FDTD METHOD**
 Ciydem M., KOÇ S. S.
 JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.29, no.1, pp.121-129, 2014 (SCI-Expanded)
- IX. **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 (SCI-Expanded)
- X. **A monolithic phased array using 3-bit distributed RF MEMS phase shifters**
 Topalli K., Civi O. A., Demir Ş., Koc S., Akın T.
 IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.56, pp.270-277, 2008 (SCI-Expanded)
- XI. **Spherical wave expansion of the time-domain free-space Dyadic Green's function**
 Azizoglu S., Koc S., Buyukdura O.
 IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.52, no.3, pp.677-683, 2004 (SCI-Expanded)
- XII. **Near field scanning in the time domain on a spherical surface A formulation using the free space Green s function**
 KOÇ S. S., Büyükdura M., AYDIN ÇİVİ H. Ö.
 J. Acoust.Soc. Am, vol.110, pp.1778-1782, 2001 (SCI-Expanded)
- XIII. **Two alternative expressions for the spherical wave expansion of the time domain scalar free-space Green's function and an application: Scattering by a soft sphere**
 Buyukdura O., Koc S.
 JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, vol.101, no.1, pp.87-91, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **Finite-Aperture Microwave Bessel Beams with Vortex Twisting, Fracturing, and Dynamic Phase-Shift Control**
 Yurchenko V., ÇİYDEM M., Koc S.
 Progress In Electromagnetics Research C, vol.124, pp.53-68, 2022 (Scopus)
- II. **Multilayer grid polarizers: Simulations for millimeter waves**
 Yurchenko V., ÇİYDEM M., Gradziel M., Koc S.
 Progress In Electromagnetics Research C, vol.114, pp.69-82, 2021 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Soliton Decomposition on Harmonic Levels in a Lumped NLTL Multiplier**
 Erdem F., KOÇ S. S.
 15th German Microwave Conference, GeMiC 2024, Duisburg, Germany, 11 - 13 March 2024, pp.292-295

- II. **A non-conventional planar phased array based on the field equivalence principle for wide angle steering of Gaussian beams**
Cetiner R., Yildiz H., Hizal A., KOÇ S. S.
25th International Conference on Electromagnetics in Advanced Applications, ICEAA 2023, Venice, Italy, 9 - 13 October 2023, pp.80-83
- III. **The Fast Multipole Method for Sparse Solution of Linear Inverse Scattering Problems**
Miran E. A., Koc S.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.407-410
- IV. **UWB 3D Near-Field Imaging with a Sparse MIMO Antenna Array for Concealed Weapon Detection**
Anadol E., Seker I., Camlica S., Topbas T. O., Koc S., Alatan L., Oktem F., Civi O. A.
Conference on Radar Sensor Technology XXII, Florida, United States Of America, 16 - 18 April 2018, vol.10633
- V. **K Band Mikroşerit Yama Anten Dizisi Tasarımı**
Aydemir A. E., ALATAN L., KOÇ S. S., AYDIN ÇİVİ H. Ö.
VIII. URSI-Türkiye 2016 Bilimsel Kongresi, Ankara, Turkey, 1 - 03 September 2016
- VI. **Amplitude Tapering Scheme for Through-Element Coupled Antenna Arrays**
Miran E. A., Koc S.
IEEE-Antennas-and-Propagation-Society International Symposium, Fajardo, Puerto Rico, 26 June - 01 July 2016, pp.1105-1106
- VII. **Interference Suppression in GPS Receivers using Spatial Filtering**
Erdem F., Dabak O. C., Sonmez T., ALATAN L., KOÇ S. S.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1889-1892
- VIII. **Evaluation of Hypersingular Integrals on Curvilinear Surface Elements**
Selcuk G., KOÇ S. S.
10th European Conference on Antennas and Propagation (EuCAP), Davos, Switzerland, 10 - 15 April 2016
- IX. **Interference Suppression in a GPS Receiver with 4 Element Array Design and Implementation of Beamforming Algorithms**
Dabak O. C., Erdem F., Sonmez T., ALATAN L., KOÇ S. S.
IEEE/ION Position, Location and Navigation Symposium (PLANS), Savannakhet, Laos, 11 - 14 April 2016, pp.645-652
- X. **A Novel Numerical Method for Evaluation of Hypersingular Integrals in Electromagnetics**
Selcuk G., Demir O., Koc S. S.
9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.294-297
- XI. **Doppler Capable FMCW Cloud Detection Radar**
Coskun S., Celik M., YILMAZ A. Ö., Koc S.
Conference on Remote Sensing of Clouds and the Atmosphere XX, Toulouse, France, 23 - 24 September 2015, vol.9640
- XII. **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
- XIII. **Polarimetrik FMCW Meteoroloji Radarı**
çoşkun s., YILMAZ A. Ö., KOÇ S. S., çelik m.
SIU 2015, Turkey, 16 - 19 May 2015
- XIV. **Polarimetric FMCW Weather Radar**
Coskun S., YILMAZ A. Ö., KOÇ S. S., Celik M.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.200-203
- XV. **Solution of Volume Integral Equations with Novel Treatment to Strongly Singular Integrals**
Selcuk G., Kurt S., KOÇ S. S.

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

- XVI. **On Generalized Eigenvector Space For Target Detection in Reduced Dimensions**
GÜVENSEN G. M., CANDAN Ç., Koc S., ORGUNER U.
IEEE International Radar Conference (RadarCon), Virginia, United States Of America, 10 - 15 May 2015, pp.1316-1321
- XVII. **The Radar Application of Micro Doppler Features from Human Motions**
ALEMDAROGLU O. T., CANDAN Ç., Koc S.
IEEE International Radar Conference (RadarCon), Virginia, United States Of America, 10 - 15 May 2015, pp.374-379
- XVIII. **Evaluation of Hypersingular Integrals on Non-planar Surfaces**
Selcuk G., KOÇ S. S.
International Conference on Numerical Electromagnetic Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO), Pavia, Italy, 14 - 16 May 2014
- XIX. **The Extraction of Micro-Doppler Features from Human Motions**
Alemdaroglu O. T., CANDAN Ç., KOÇ S. S.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.726-729
- XX. **Novel Nystrom Method for TDEFIE**
Selcuk G., KOÇ S. S.
8th European Conference on Antennas and Propagation (EuCAP), Hague, Netherlands, 6 - 11 April 2014, pp.1315-1319
- XXI. **Mitigating the Multipath Effects of Low Angle Monopulse Tracking by Even Difference Pattern**
Hizal A., Koc S.
15th European Microwave Week - Space for Microwaves Conference Proceedings, Amsterdam, Netherlands, 28 October - 02 November 2012, pp.290-293
- XXII. **Beamspace Approach for Detection of the Number of Coherent Sources**
CANDAN Ç., Koc S.
IEEE Radar Conference (RADAR), Georgia, United States Of America, 7 - 11 May 2012
- XXIII. **Time Domain Scattering of Scalar Waves by Two Spheres in Free-Space**
Azizoglu S. A., KOÇ S. S., Buyukdura O. M.
IEEE Antennas and Propagation International Symposium /USNC/URSI National Radio Science Meeting, South-Carolina, United States Of America, 1 - 05 June 2009, pp.3609-3612
- XXIV. **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
- XXV. **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
- XXVI. **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
- XXVII. **A monolithic phased array using 3-bit DMTL RF MEMS phase shifters**
Topalli K., Unlu M., AYDIN ÇİVİ H. Ö., DEMİR Ş., KOÇ S. S., AKIN T.
IEEE Antennas and Propagation Society International Symposium, APS 2006, Albuquerque, NM, United States Of America, 9 - 14 July 2006, pp.517-520
- XXVIII. **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

- XXIX. **A reconfigurable RF MEMS triple stub impedance matching network**
Unlu M., Topalli K., Atasoy H., Temocin E., Istanbuluoglu 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
- XXX. **Esdüzlemsel Dalga Klavuzundan Mikroserit Hatta Geçiş Üzerine Çalışmalar**
TEMOÇİN E. U., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ATASOY H. İ., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.
National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.448-450
- XXXI. **RF MEMS Teknolojisi ile Kapasitif ve Metal Metal Bağlantılı Paralel Anahtar Yapıları**
ATASOY H. İ., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ENGİN UFUK T., ÖMER B., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.
National URSI Symposium Turkey, Turkey, 6 - 08 September 2006, pp.410-412
- XXXII. **RF MEMS Teknolojisi Kullanılarak Tasarlanmış Ayarlanabilir Bant Geçiren Bağlanmış Hat Süzgeç**
İSTANBULLUOĞLU İ., TOPALLI K., TEMOÇİN E. U., ATASOY H. İ., ÜNLÜ M., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.
National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.416-418
- XXXIII. **RF MEMS Teknolojisi ile Yansıtıcı Dizi Anteni Tasarımı**
BAYRAKTAR Ö., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ENGİN UFUK T., ATASOY H. İ., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.
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- XXXIV. **RF MEMS Teknolojisi ile Ayarlanabilir Empedans Uyumlama Devresi**
ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.
National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.407-409
- XXXV. **TRL Kalibrasyonunda Uç Konumlandırması ve Geçişlerin Etkileri**
ATASOY H. İ., ÜNLÜ M., TOPALLI K., İSTANBULLUOĞLU İ., TEMOÇİN E. U., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.
National URSI Symposium Turkey, Turkey, 6 - 08 September 2006, pp.426-428
- XXXVI. **RF MEMS Teknolojisi ile Tek Parça Faz Dizili Anten Yapısı**
TOPALLI K., ÜNLÜ M., AYDIN ÇİVİ H. Ö., DEMİR Ş., KOÇ S. S., AKIN T.
National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.413-415
- XXXVII. **A Reconfigurable RF MEMS Impedance Tuner for Impedance Matching of a Two Stage Low Noise Amplifier**
ÜNLÜ M., TOPALLI K., ATASOY H. İ., TEMOÇİN E. U., İSTANBULLUOĞLU İ., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.
7th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), 27 - 30 June 2006
- XXXVIII. **Metal to metal and capacitive contact RF MEMS shunt switch structures**
ATASOY H. İ., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., TEMOÇİN E. U., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.
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- XXXIX. **Reconfigurable slot antenna with fixed-fixed beam type RF MEMS capacitors**
Erdil E., Topalli K., Unlu M., Istanbuluoglu I., Temocin E. U., Atasoy H. I., Bayraktar O., AYDIN ÇİVİ H. Ö., DEMİR Ş., Koc S., et al.
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- XL. **Reconfigurable reflectarray using RF MEMS technology**
Bayraktar O., Topalli K., Unlu M., Istanbuluoglu I., Temocin E. U., Atasoy H. I., AYDIN ÇİVİ H. Ö., DEMİR Ş., Koc S., AKIN T.
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- XLI. **RF MEMS teknolojisi ile mikroserit ve esduzlemsel dalga klavuzu hat ustunde paralel anahtar yapıları**

TOPALLI K., ÜNLÜ M., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

National URSI Symposium Turkey, Turkey, 8 - 10 September 2004, pp.370-372

XLII. Reconfigurable Antenna Structures Using MEMS Technology

Erdil E., Onat S., Topallı K., İstanbulluoğlu İ., Ünlü M., Demir Ş., Aydın Çivi H. Ö., Alatan L., Koç S. S., Akın T.

6th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), Lausanne, Switzerland, 23 - 24 June 2005

XLIII. Sıralanmış MEMS iletim hatları için yeni bir model

ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

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XLIV. Design and Modeling of a Reconfigurable Triple Stub Impedance Matching Network using Distributed MEMS Transmission Lines

ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

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XLV. RF MEMS Teknolojisi ile Faz Dizili Anten

TOPALLI K., SAĞKOL H., ÜNLÜ M., AYDIN ÇİVİ H. Ö., DEMİR Ş., KOÇ S. S., AKIN T.

URSI-Türkiye'2002, Turkey, 18 - 20 September 2002, pp.134-137

XLVI. Anten Uygulamaları için Yeni MEMS Anahtar Yapıları

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URSI-Türkiye'2002, Turkey, 18 - 20 September 2002, pp.146-149

XLVII. RF MEMS Teknolojisi ile Ayarlanabilir Empedans Uyumlama ve Güç Bölücü Devreleri

ÜNLÜ M., SAĞKOL H., TOPALLI K., AYDIN ÇİVİ H. Ö., DEMİR Ş., KOÇ S. S., AKIN T.

URSI-Türkiye'2002, Turkey, 18 - 20 September 2002, pp.142-145

XLVIII. RF MEMS Teknolojisi ile Mikrodalga Faz Kaydırıcıları

SAĞKOL H., ÜNLÜ M., TOPALLI K., AYDIN ÇİVİ H. Ö., DEMİR Ş., KOÇ S. S., AKIN T.

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XLIX. RF MEMS adjustable impedance matching network and adjustable power divider

Unlu M., Topalli K., Sagkol H., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

2002 IEEE Antennas and Propagation Society International Symposium, San Antonio, TX, United States Of America, 16 - 21 June 2002, vol.2, pp.26-29

L. A monolithic phased array with RF MEMS technology

Sagkol H., Topalli K., Unlu M., AYDIN ÇİVİ H. Ö., KOÇ S. S., DEMİR Ş., AKIN T.

2002 IEEE Antennas and Propagation Society International Symposium, San Antonio, TX, United States Of America, 16 - 21 June 2002, vol.4, pp.760-763

LI. New MEMS Switch Structures for Antenna Applications

ÜNLÜ M., TOPALLI K., SAĞKOL H., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

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Non Academic Experience

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