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Education Information

Doctorate, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Turkey 1998 - 2001

Post Graduate, Gebze Yüksek Teknoloji Enstitüsü, Fen Bilimleri Enstitüsü, Elektronik Mühendisliği, Turkey 1996 - 1998

Under Graduate, Yıldız Teknik Üniversitesi, Elektrik-Elektronik Mühendisliği, Elektronik Ve Haberleşme Mühendisliği, Turkey 1992 - 1996

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Electrical and Electronics Engineering, Electromagnetic, Electromagnetic Waves, Antennas and Propagation, Engineering and Technology

Academic Titles / Tasks

Professor, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği, 2012 - Continues

Associate Professor, Yıldız Teknik Üniversitesi, Faculty of Electrical & Electronics, Elektronik Ve Haberleşme Mühendisliği, 2008 - 2012

Professional Experience

Advising Theses

Türk A. S. , Çok geniş bantlı radar ile gizlenmiş hedef tespit ve takibi için görüntüleme algoritmalarının geliştirilmesi, Post Graduate, M.ORHAN(Student), 2016

Türk A. S. , DEVELOPMENT OF ANALYTICAL REGULARIZATION METHOD FOR RADIATION PROBLEMS OF THREE-DIMENSIONAL PARABOLIC REFLECTOR ANTENNAS, Doctorate, O.MERT(Student), 2014

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

1. Biochar-iron composites as electromagnetic interference shielding material

Akgül G., Demir B., Gündoğdu A., Türk A. S., Sözer S.

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- II. **Development of 2.5D Analytical Regularization Method for reflector antenna analysis**
Yücedağ O. M., Türk A. S.
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- III. **High-resolution signal processing techniques for through-the-wall imaging radar systems**
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- IV. **Ultra-wide band antenna designs and numerical system modelling for forward-looking GPR**
TÜRK A. S., Aksoy S., Keskin A. K., Senturk M. D., ÇALIŞKAN A., Ozakin M. B.
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- V. **Dielectric loaded TEM horn-fed ridged horn antenna design for ultrawideband ground-penetrating impulse radar**
TÜRK A. S., KESKIN A. K., SENTURK M. D.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, pp.1479-1488, 2015 (Journal Indexed in SCI)
- VI. **Design of horn fed offset parabolic reflector antennas with analytical regularization method**
Yucedag O. M., TÜRK A. S.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.28, pp.1502-1511, 2014 (Journal Indexed in SCI)
- VII. **A Compact Vivaldi Shaped Partially Dielectric Loaded TEM Horn Antenna for UWB Communication**
Ilarslan M., TÜRK A. S., Demirel S., Aydemir M. E., Keskin A. K.
INTERNATIONAL JOURNAL OF ANTENNAS AND PROPAGATION, 2014 (Journal Indexed in SCI)
- VIII. **Parametric Design of Open Ended Waveguide Array Feeder with Reflector Antenna for Switchable Cosecant-Squared Pattern**
Yücedağ O. M., TÜRK A. S.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.27, pp.668-675, 2012 (Journal Indexed in SCI)
- IX. **Partially Dielectric-Loaded Ridged Horn Antenna Design for Ultrawideband Gain and Radiation Performance Enhancement**
TÜRK A. S., Keskin A. K.
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, vol.11, pp.921-924, 2012 (Journal Indexed in SCI)
- X. **Parametric analysis of flare edge rolling throat bending and asymmetric flare effects for H-plane horn radiator**
TÜRK A. S., Yücedağ O. M.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.66, pp.297-304, 2012 (Journal Indexed in SCI)
- XI. **Parametric Design of Parabolic Reflector Antenna with Switchable Cosecant-Squared Pattern**
TÜRK A. S., Yurduseven O.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.26, pp.494-501, 2011 (Journal Indexed in SCI)
- XII. **Parametric Analysis of Multi Source Feeding Flare Rolling and Corrugating Effects for H-Plane Horn Radiator**
TÜRK A. S., Yurduseven O.
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.25, pp.990-997, 2010 (Journal Indexed in SCI)
- XIII. **HF spectrum occupancy and antennas**
Casimiro A., Azevedo J., Economou L., Haralambous H., Tulunay E., TULUNAY Y., Bahadirlar Y., Turk A. S., Warrington E. M.

ANNALS OF GEOPHYSICS, vol.52, pp.339-357, 2009 (Journal Indexed in SCI)

- XIV. **Hyper-wide band TEM horn array design for multi band ground-penetrating impulse radar**
TÜRK A. S. , Nazlı H.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.50, pp.76-81, 2008 (Journal Indexed in SCI)

- XV. **Analysis of aperture illumination and edge rolling effects for parabolic reflector antenna design**
TÜRK A. S.

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.60, pp.257-266, 2006 (Journal Indexed in SCI)

- XVI. **Ultra-Wide Band Vivaldi Antenna Design for Multisensor Adaptive Ground Penetrating Impulse Radar**

TÜRK A. S.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, pp.834-839, 2006 (Journal Indexed in SCI Expanded)

- XVII. **Ultra-Wide Band TEM Horn Design for Ground Penetrating Impulse Radar Systems**

TÜRK A. S.

MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, pp.333-336, 2004 (Journal Indexed in SCI Expanded)

- XVIII. **E-polarized scalar wave diffraction by perfectly conductive arbitrary shaped cylindrical obstacles with finite thickness**

Karachua E., Turk A.

INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, vol.22, pp.1531-1546, 2001 (Journal Indexed in SCI)

- XIX. **Radiation characteristics of wide-angle H-plane sectoral horn loaded with dielectric of multiangular shape**

Chumachenko V., Turk A.

INTERNATIONAL JOURNAL OF ELECTRONICS, vol.88, pp.91-101, 2001 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Partial Dielectric Loaded TEM Horn and Reflector Antenna Designs for Ultrawide Band Ground Penetrating Radar Systems**

TÜRK A. S. , KESKİN A. K. , İlarıslan M.

Applied Radio Electronics, vol.12, no.1, pp.99-104, 2013 (Refereed Journals of Other Institutions)

- II. **Subsurface and through-wall SAR imaging techniques for ground penetrating radar**

ÜNAL M., Caliskan A., Turk A. S. , Ozkan Bakbak P.

Technology and Design in Electronic Equipment, vol.37, pp.32-36, 2013 (Refereed Journals of Other Institutions)

- III. **Impacts on Subsurface and Through-Wall SAR Imaging Techniques for Ground Penetrating Radar**

Çalıřkan A., TÜRK A. S.

Technology and Design in Electronic Equipment (TKEA), vol.37, pp.32-36, 2013 (Refereed Journals of Other Institutions)

- IV. **Novel T/R Antenna Designs for Surface Wave HF Radar Systems with Narrow Elevation and Azimuthal Beamwidths**

TÜRK A. S.

Turkish Journal of Telecommunication, pp.96-100, 2002 (Other Refereed National Journals)

Books & Book Chapters

- I. **Subsurface Sensing**

TÜRK A. S. , Hocaoglu A. K. , Vertiy A. A.

Wiley, 2011

- II. **Partial Dielectric Loaded TEM-Horn Design for UWB Ground Penetrating Impulse Radar Systems**

TÜRK A. S. , Armağan Şahinkaya D. S.

in: Ultra-Wideband, Short-Pulse Electromagnetics 7, Frank Sabath, Eric L. Mokole, Uwe Schenk, Daniel Nitsch, Editor, Springer, New York, pp.306-315, 2007

III. **Buried Object Detection**

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in: Encyclopedia of RF and Microwave Engineering, Kai Chang, Editor, Wiley, New York, pp.540-559, 2005

Refereed Congress / Symposium Publications in Proceedings

- I. **High Gain and Broadband Quasi Horn Antenna Array for Ku Band Mobile TV Antenna Systems and Monopulse Radiation**
Tulum M. A. , Turk A. S.
49th European Microwave Conference, EuMC 2019, Paris, France, 1 - 03 October 2019, pp.1064-1067
- II. **Waveguide Slot-Fed Horn Antenna Array with Suppressed Sidelobes**
Yamaç Y. E. , Çalışkan A., Türk A. S. , Kızılay A.
Signal Processing Symposium, Krakow, Poland, 16 - 19 September 2019
- III. **Review of spoofing and jamming attack on the global navigation systems band and countermeasure**
Tugsad Seferoglu K., Serdar Turk A. S.
9th International Conference on Recent Advances in Space Technologies, RAST 2019, İstanbul, Turkey, 11 - 14 June 2019, pp.513-520
- IV. **Through the wall Target Detection/Monitoring from Compressively Sensed Signals via Structural Sparsity**
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5th International Workshop on Compressed Sensing applied to Radar, Multimodal Sensing and Imaging (CoSeRa), Siegen, Germany, 10 September 2018, vol.1, no.1, pp.1-6
- V. **Biochar composites as novel electromagnetic interference shielding materials**
Akgül G., Demir B., Gündoğdu A., TÜRK A. S.
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- VI. **24 GHz short range radar system measurements for synthetic aperture radar imaging**
ÇALIŞKAN A., YAMAÇ Y. E. , UYSAL H., TÜRK A. S. , KIZILAY A., Orhan M.
2017 IEEE Microwaves, Radar and Remote Sensing Symposium (MRRS), Kiev, Ukraine, Ukraine, 29 - 31 August 2017, pp.285-287
- VII. **Design of Displaced and Circular Polarized Waveguide Slot Array Antenna with Dielectric for K-Band Radar Application**
Cumurcu O., ÇALIŞKAN A., YAMAÇ Y. E. , TÜRK A. S.
International Radar Symposium 2017, Prag, Czech Republic, 28 June 2017, pp.1
- VIII. **A Horn Antenna Array Design to Destroy Cancerous Tissues by Non-Destructive Hyperthermia**
Ünal M., TÜRK A. S. , KIZILAY A.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- IX. **High Resolution Signal Processing Techniques for Millimeter Wave Short Range Surveillance Radar**
TÜRK A. S. , KIZILAY A., Orhan M., ÇALIŞKAN A.
IRS 2016 - 17th International Radar Symposium, 10 - 12 May 2016
- X. **Millimeter Wave Short Range Radar System Design**
TÜRK A. S. , Keskin A. K. , UYSAL H., KIZILAY A., Demirel S.
3rd IEEE Radar Methods and Systems Workshop (RMSW), Kyiv, Ukraine, 27 - 28 September 2016, pp.76-78
- XI. **Design of Dielectric Lens Loaded Double Ridged Horn Antenna for Millimetre Wave Application**
Demirel S., ÇALIŞKAN A., Mersin M. T. , TÜRK A. S. , Belen M. A. , Mahouti P.
21st International Conference on Microwave, Radar and Wireless Communications (MIKON), Krakow, Poland, 9 - 11 May 2016

- XII. **Microstrip Frequency Selective Surface For Use In Horn Filtenna**
Sharipov Z., GÜNEŞ F., TÜRK A. S. , Belen M. A. , Mahouti P., Demirel S.
3rd IEEE Radar Methods and Systems Workshop (RMSW), Kyiv, Ukraine, 27 - 28 September 2016, pp.107-109
- XIII. **Front-Find Design for Ka Band mm-Wave Radar**
Keskin A. K. , Senturk M. D. , Demirel S., KIZILAY A., TÜRK A. S.
17th International Radar Symposium (IRS), Krakow, Poland, 10 - 12 May 2016
- XIV. **Analog Signal Processing for UWB Sounding**
Ruban V., Shuba O., Pochanin G., Türk A. S. , Keskin A. K. , Şentürk M. D. , ÇALIŞKAN A.
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- XV. **Development of Signal Processing Techniques for Through-Wall Imaging Radar Systems**
Ünal M., ÇALIŞKAN A., Türk A. S. , Orhan M., Özdemir M.
01 June 2014
- XVI. **Holographic subsurface imaging radar for applications in civil engineering**
Zhuravlev A., Ivashov S., Razevig V., Vasiliev I., TÜRK A. S. , KIZILAY A.
IET International Radar Conference 2013, Xian, China, 14 - 16 April 2013, vol.2013
- XVII. **The Design and Simulation of a Compact Vivaldi Shaped Partially Dielectric Loaded (VS-PDL) TEM Horn Antenna for UWB Applications**
TÜRK A. S.
IEEE International Conference on Ultra-Wideband (ICUWB2013), 01 September 2013
- XVIII. **Ultra Wide Band Parabolic Reflector Antenna Design for Forward Looking Ground Penetrating Impulse Radar**
TÜRK A. S.
Progress In Electromagnetics Research Symposium (PIERS 2013), 01 August 2013
- XIX. **Ultra Wide Band TEM Horn and Reflector Antenna Designs for Down and Forward Looking Ground Penetrating Radars**
TÜRK A. S.
7th International Workshop on Advanced Ground Penetrating Radar (IWAGPR), 01 July 2013
- XX. **Cross Section Optimization of Offset Parabolic Reflector Antenna for Cosecant Squared Radiation Pattern**
TÜRK A. S.
Radar Signal Processing Symposium (SPS 2013), 01 June 2013
- XXI. **Impacts on Signal Processing Techniques for Ground Penetrating Radar**
TÜRK A. S.
Radar Signal Processing Symposium (SPS 2013), 01 June 2013
- XXII. **AMISS - Active and passive MICrowaves for Security and Subsurface Imaging**
TÜRK A. S.
Proceedings of European Geophysical Union (EGU) General Assembly 2013, 01 April 2013
- XXIII. **An Algorithm for Detection of Hidden Objects by Passive/Active Radiometer**
Ivashov S. I. , Bugaev A., TÜRK A. S.
IET (Institution of Engineering and Technology), 01 April 2013, vol.1, pp.1-5
- XXIV. **Parametric Design of 2D Reflector Antenna Structures with Analytical Regularization Method**
TÜRK A. S.
29th Progress in Applied Electromagnetics (ACES 2013), 01 March 2013
- XXV. **Parametric Design of 2D Cassegrain Reflector Antenna Structures with Analytical Regularization Method**
TÜRK A. S.
29th Progress in Applied Electromagnetics (ACES 2013), 01 March 2013
- XXVI. **Active and Passive Microwaves for Security and Subsurface Imaging (AMISS)**
TÜRK A. S.
PEOPLE 2012 Marie Curie Actions In Horizon 2020, 01 November 2012, vol.1, pp.56-65

- XXVII. **Practical Design Considerations for Tri-Band Microstrip Patch Antennas**
TÜRK A. S.
International Symposium on Antennas and Propagation (ISAP 2012), 01 October 2012
- XXVIII. **Ultra Wide Band TEM Horn Antenna Designs for Ground Penetrating Impulse Radar**
TÜRK A. S.
IEEE International Conference on Ultrawide Band (ICUWB 2012), 01 September 2012
- XXIX. **Parametric Analysis of Open-ended Waveguide Array Feeder for Cosecant-Squared And Pencil Beam Pattern**
TÜRK A. S.
5th Microwave and Radar Week (MIKON 2012), 01 May 2012
- XXX. **Parametric Analysis of Open-ended Waveguide Array Feeder for Pattern Shaping of Parabolic Reflector Antenna**
TÜRK A. S.
Microwaves, Radar and Remote Sensing Symposium (MRRS 2011), 01 August 2011
- XXXI. **Vivaldi Shaped TEM Horn Fed Ridged Horn Antenna Design for UWB GPR Systems**
TÜRK A. S.
6th International Workshop on Advanced Ground Penetrating Radar (IWAGPR 2011), 01 June 2011
- XXXII. **Analysis of Flare Rolling and Corrugating Effects for H-plane Horn Radiator**
TÜRK A. S.
5th European Conference on Antennas and Propagation, 01 April 2011
- XXXIII. **Muhtelif Cisimlerin Radar Kesit Alanı Analizleri ve RKA Optimizasyonu**
TÜRK A. S.
ELECO Ulusal Kongresi, 01 December 2010
- XXXIV. **Mikrodalga Radar Sistemleri için Kosekant-kare Işıma Desenli Dışbükey Parabolik Yansıtıcı Anten Tasarımı**
TÜRK A. S.
ELECO Ulusal Kongresi, 01 December 2010
- XXXV. **Cosecant-squared Parabolic Reflector Antenna Design for Air and Coastal Surveillance Radars**
TÜRK A. S.
4th World Aviation Congress, Radar Methods and Systems Workshop (RMSW), 01 September 2010
- XXXVI. **TEM Horn Fed Parabolic Reflector Antenna Design for Hyperwide Band Impulse Radar Systems**
TÜRK A. S.
4th World Aviation Congress, Radar Methods and Systems Workshop (RMSW), 01 September 2010
- XXXVII. **Hava Gözetleme Radarları için Kosekant-kare Işıma Desenli Parabolik Yansıtıcı Anten Tasarımı**
TÜRK A. S.
URSI 5. Ulusal Kongresi, 01 August 2010
- XXXVIII. **Parametric Analysis of H-plane Horn Antenna Radiation**
TÜRK A. S.
7th International Symposium on Physics and Engineering of Microwaves and Millimeter Waves (MSMW), 01 June 2010
- XXXIX. **Ultra-Wide Band TEM Horn Antenna Designs for Impulse GPR Systems**
TÜRK A. S.
5th International Workshop on Advanced Ground Penetrating Radar (IWAGPR), 01 May 2009
- XL. **Investigation of Convenient Antenna Designs for Ultra-Wide Band GPR Systems**
TÜRK A. S.
4th International Workshop on Advanced Ground Penetrating Radar (IWAGPR), 01 June 2007
- XLI. **Recent COST 296 Propagation Related Measurements During the 29th March 2006 Solar Eclipse in Antalya, Turkey**
TÜRK A. S.
2nd COST 296 Workshop and 5th MC Meeting Radio Systems and Ionospheric Effects, 01 January 2006
- XLII. **Ultra-Wide Band Antenna Designs for Multi-sensor Adaptive Ground-Penetrating Impulse Radar**

- TÜRK A. S.
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- XLIII. **Propagation Related Measurements during Three Solar Eclipses in Turkey**
TÜRK A. S.
IET 10th International Conference on Ionospheric Radio Systems & Techniques (IRST), 01 January 2006
- XLIV. **UWB Performance Analysis Of PDTEM Horn Antenna Designed For Multi-sensor Adaptive Hand-held GPR**
TÜRK A. S.
11th Int. Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), 01 January 2005
- XLV. **A Portable Wireless RF Sensor Prototype**
TÜRK A. S.
2nd IEEE International Conference on Sensor and Ad Hoc Communications and Networks (SECON), 01 January 2005
- XLVI. **Parabolik Yansıtıcı Antenler için Açıklık Aydınlatma ve Kenar Yuvarlatma Etkilerinin Analizi**
TÜRK A. S.
URSI 2. Ulusal Kongresi, 01 September 2004
- XLVII. **Yere Nüfuz Eden Darbe Radarı için Geniş Bantlı Anten Tasarımları**
TÜRK A. S.
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- XLVIII. **Dielektrik Cisimlerin Tespiti için Geniş Frekans Bantlı Yere Nüfuz Eden Radar Tasarımı**
TÜRK A. S.
URSI 2. Ulusal Kongresi, 01 September 2004
- XLIX. **Arama Kurtarma Çalışmaları için Geliştirilmiş bir Gezer RF Algılayıcı Sistemi**
TÜRK A. S.
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- L. **Bölge Ürün Tekniği ile Kısmi Dielektrik Yüklü Horn Anten Analizi**
TÜRK A. S.
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- LI. **Partial Dielectric Loaded TEM Horn Design for Ultra-Wideband Ground Penetrating Impulse Radar Systems**
TÜRK A. S.
7th Ultra-Wideband Short-Pulse Electromagnetics Conference (EUROEM), 01 July 2004
- LII. **An Innovative GPR System Design: Detection of Cylindrical Dielectric Objects**
TÜRK A. S.
10th Int. Conference on Ground Penetrating Radar (GPR), 01 January 2004
- LIII. **UWB GPR for Detection and Identification of Buried Small Objects**
TÜRK A. S.
Int. Society for Optical Engineering (SPIE) Defense and Security Symposium, 01 January 2004
- LIV. **EMI and Atmospheric Noise Measurements for Determining HF Bandwidth Occupancy Profile of East-Mediterranean Sea**
TÜRK A. S.
IEEE Int. Symposium on Electromagnetic Compatibility, 01 May 2003
- LV. **Ultra Wide Band Antenna Designs for Ground Penetrating Impulse Radar Systems**
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- LVI. **Yüzey Dalgalı HF Radar Anten Sistemleri için Yüzeğe Kuplaj Verimini Arttırıcı Topraklama Ağı Tasarımları**
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- LVII. **Yüzey Dalgalı HF Radar Sistemleri için Dar Düşey ve Yatay Huzmeli Dizi Anten Tasarımları**
Türk A. S. , Polat A. B.

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- LVIII. **TE-Mode Radiation from a Flanged Parallel-Plate Waveguide with Dielectric Plug Shaped Like a Wedge**
TÜRK A. S.
Int. Symposium on Physics and Engineering of Millimeter and Sub-Millimeter Waves (MSMW), 01 January 2001
- LIX. **Domain-Product-Technique Analysis of a Dielectric-Loaded H-plane Radiator**
TÜRK A. S.
Int. Conference on Mathematical Methods in Electromagnetic Theory (MMET), 01 September 2000
- LX. **Characterization of the Waveguide Step Discontinuity Devices Based upon the Wiener-Hopf Technique**
TÜRK A. S.
Progress in Electromagnetic Research Symposium (PIERS), 01 July 2000
- LXI. **Geniş Bantlı Düzlemsel Anten Tasarımı**
TÜRK A. S.
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- LXII. **Determination of the S-parameters for the Waveguide Step Discontinuities Based upon Wiener-Hopf Analysis**
TÜRK A. S.
Progress in Electromagnetic Research Symposium (PIERS), 01 January 1999
- LXIII. **Analytical Regularization Method for E-Polarized Electromagnetic Wave Diffraction by Arbitrary Shaped Cylindrical Obstacles**
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Supported Projects

- Türk A. S. , Daşbaşı R., Şengiz M., TUBITAK Project, HAREKETLİ ORTAMLAR İÇİN ARAÇ ÜSTÜ KA BAND İKİ YÖNLÜ UYDU HABERLEŞME ANTEN SİSTEMİ, 2015 - 2017
- TÜRK A. S. , TUBITAK Project, Göçük Altı Canlı Hedef Tespit Radarı Geliştirilmesi, 2014 - 2016
- TÜRK A. S. , Project Supported by Higher Education Institutions, Üç Boyutlu Parabolik Yansıtıcı Anten Işıma Problemleri İçin Analitik Regülerizasyon Tekniğinin Geliştirilmesi, 2012 - 2014
- TÜRK A. S. , ÜNAL M., ÇALIŞKAN A., TUBITAK Project, Araca Monteli İleri Bakan Yere Nüfuz Eden Radar (YNR) için Çok Geniş Bantlı Anten Sistemleri Tasarımı ve Uygulaması, 2011 - 2013
- TÜRK A. S. , EU Supported Other Project, Transport Infrastructure Technologies and Management (TITAM), 2008 - 2008
- TÜRK A. S. , TUBITAK Project, Uzun Ufuk HF Radar Kavram Gösterim Projesi, 2006 - 2007
- TÜRK A. S. , Project Supported by Other Official Institutions, Arama Kurtarma İm Sistemi (AKİS), 2005 - 2007
- TÜRK A. S. , TUBITAK Project, Modern Yeraltı Tespit Sistemleri (MMTS), 2003 - 2007
- TÜRK A. S. , TUBITAK Project, Uzun Ufuk Araştırma Destek Projesi (UUADP), 2001 - 2004
- TÜRK A. S. , Project Supported by Other Official Institutions, Gümrük Denetim Sistemleri (GÜMSİS) Projesi, 2003 - 2003
- TÜRK A. S. , TUBITAK Project, Yeraltı Tespit Projesi (MTS), 1998 - 2000

Citations

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