

## Prof. TURGUT İKİZ

### Personal Information

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### Education Information

Doctorate, Cukurova University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Müh., Turkey 1994 - 1998

### Research Areas

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

### Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Elektrik-Elektronik Müh., 2011 - Continues

### Academic and Administrative Experience

Cukurova University, 1999 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Diffraction of Obliquely Incident Plane Waves by an Impedance Wedge with Surface Impedances Being Equal to the Intrinsic Impedance of the Medium**  
İKİZ T., Zateroglu M. K.  
APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL, vol.26, no.3, pp.199-205, 2011 (SCI-Expanded)
- II. **Solution of the plane wave diffraction problem by an impedance strip using a numerical-analytical method: E-polarized case**  
Ikiz T., Koshikawa S., Kobayashi K., Veliev E., Serbest A.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.15, no.3, pp.315-340, 2001 (SCI-Expanded)
- III. **AUXILIARY ARRAY TRACKING SYSTEM FOR REFLECTING ANTENNAS**  
BALASUBRAMANIAN K., IKIZ T.  
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.39, no.2, pp.93-99, 1993 (SCI-Expanded)
- IV. **MICROPROCESSOR CONTROLLED DIRECTION SELECTABLE TV RECEIVING ANTENNA**  
BALASUBRAMANIAN K., IKIZ T.  
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.38, no.4, pp.862-868, 1992 (SCI-Expanded)

## ARTICLES PUBLISHED IN OTHER JOURNALS

- I. **INTEGRAL EQUATIONS FOR THE PROBLEM OF WAVE DIFFRACTION ON A FLAT STRIP: ALTERNATIVE REPRESENTATION**  
Baz Z., Helvacı M., İKİZ T., Veliyev E.  
Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, vol.14, no.1, pp.113-122, 2024 (ESCI)
- II. **An Approximate Solution for the Scattering of High-Frequency Plane Electromagnetic Waves from a Perfectly Conducting Strip**  
İKİZ T., AVŞAR AYDIN E.  
Majlesi Journal of Telecommunication Devices, vol.6, no.2, 2017 (Peer-Reviewed Journal)
- III. **An Approximate Solution for the Plane Wave Diffraction by an Impedance Strip H Polarization Zase**  
AVŞAR AYDIN E., İKİZ T.  
Tehnicki Glasnik, vol.10, pp.79-97, 2016 (ESCI)
- IV. **AN APPROXIMATE SOLUTION FOR THE PLANE WAVE DIFFRACTION BY AN IMPEDANCE STRIP: H-POLARIZATION CASE**  
Aydin E. A., İKİZ T.  
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.10, pp.79-97, 2016 (ESCI)
- V. **Formulation of the Diffraction Problem of Almost Grazing Incident Plane Wave by an Anisotropic Impedance Wedge**  
AVŞAR AYDIN E., İKİZ T.  
Majlesi Journal of Telecommunication Devices, vol.3, no.3, 2014 (Peer-Reviewed Journal)
- VI. **FORMULATION OF THE DIFFRACTION PROBLEM OF ALMOST GRAZING INCIDENT PLANE WAVE BY AN ANISOTROPIC IMPEDANCE ANİZOTROPİK BİR KAMA YÜZEYİNE EĞİK BİR ŞEKİLDE GELEN DÜZLEM BİR DALGANIN KIRINIMI PROBLEMİNİN FORMÜLASYONU**  
AVŞAR AYDIN E., İKİZ T.  
Majlesi Journal of Electrical Engineering, vol.3, no.3, 2014 (Scopus)
- VII. **Perturbation Method in the Diffraction Problem of Almost Grazing Incident Plane Wave by an Anisotropic Impedance Wedge**  
Avşar E., İKİZ T.  
Journal of Science and Engineering, vol.29, no.4, pp.29-36, 2013 (Peer-Reviewed Journal)
- VIII. **PERTURBATION METHOD IN THE DIFFRACTION PROBLEM OF ALMOST GRAZING INCIDENT PLANE WAVE BY AN ANISOTROPIC IMPEDANCE WEDGE ANİZOTROPİK BİR KAMA YÜZEYİNE EĞİK BİR ŞEKİLDE GELEN DÜZLEM BİR DALGANIN KIRINIMI PROBLEMİ İÇİN PERTURBASYON METODU**  
AVŞAR AYDIN E., İKİZ T.  
Çukurova University Insitute of Natural and Applied Science, Journal of Science and Engineering, vol.29, no.4, 2013 (Non Peer-Reviewed Journal)
- IX. **Solution of the Scattering of Plane Wave From an Inhomogeneous Sphere with FDTD Method**  
Yavuncu H., İKİZ T.  
Journal of Science and Engineering, vol.16, no.5, pp.110-117, 2007 (Peer-Reviewed Journal)
- X. **The FDTD Solution of Plane Waves Scattering Problem from an Infinite Length Nonhomogenous Cylinder**  
Çakır D., İkiz T.  
Journal of Science and Engineering, vol.16, no.15, pp.20-28, 2007 (Peer-Reviewed Journal)
- XI. **Solution of the Scattering of Plane Wave from an Inhomogenous Sphere with FDTD Method**  
İKİZ T.  
Journal of Science and Engineering, vol.16, no.15, pp.5, 2007 (Peer-Reviewed Journal)
- XII. **The FDTD Solution of Plane Waves Scattering Problem from an Infinite Length Nonhomogenous Cylinder**  
İKİZ T.  
Journal of Science and Engineering, vol.16, pp.5, 2007 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Elektrik Devreleri Çözömlü Problemleri**  
İKİZ T.  
Papatya Bilim, İstanbul, 2016
- II. **Elektrik Devreleri**  
İKİZ T.  
Papatya Bilim, İstanbul, 2016
- III. **Elektrik Devre Analizi II AC ve Diğer Zaman Değişimli Sinyaller**  
İKİZ T.  
NONEL KİTABEVİ, Adana, 2011
- IV. **Elektrik Devre Analizi I DC**  
İKİZ T.  
NOBEL KİTABEVİ, Adana, 2010
- V. **Kablosuz Hücreli İletişim Sistemleri**  
İKİZ T., Yabancı B.  
EMO YAYINLARI, Ankara, 2010

## Refereed Congress / Symposium Publications in Proceedings

- I. **Yüksek Hızda Veri İletişimi Sağlayan Mobil Şebeke Erişim Teknolojilerinin Analizi ve Kıyaslanması**  
İKİZ T.  
4. İletişim Teknolojileri Ulusal Sempozyumu, Adana, Turkey, 15 - 16 October 2009, pp.5
- II. **UMTS ve LTE Şebekelerinde Radyo Erişim Tekniklerinin Kıyaslanması**  
İKİZ T.  
İletişim Teknolojileri Ulusal Sempozyumu, Adana, Turkey, 15 - 16 October 2009, pp.5
- III. **Eğik Gelen Düzlemsel Dalgaların İki Empedanslı Kamadan Kırınımının Bir Özel Durum için İncelenmesi**  
Zateroğlu M. K., İKİZ T., SERBEST A.  
URSI-TÜRKİYE'2004, Ankara, Turkey, 8 - 10 September 2004, pp.400-402
- IV. **Eğik Gelen Düzlemsel Dalgaların İki Empedanslı Kamadan Kırınımının Bir Özel Durumu için İncelenmesi**  
İKİZ T.  
URSI 2. Ulusal Kongresi, Ankara, Turkey, 8 - 10 September 2004, pp.5
- V. **Perturbation Method in the Problem of Diffraction of an Obliquely Incident Electromagnetic Plane Wave by an Impedance Wedge**  
Lyalinov M. A., SERBEST A., İKİZ T.  
Days on Diffraction 2001, St. PETERSBURG, Russia, 29 - 31 March 2001
- VI. **Diffraction of plane waves by a two-impedance wedge in cold plasma**  
Ikiz T., Lyalinov M., Serbest A.  
1998 International Conference on Mathematical Methods in Electromagnetic Theory, Kharkiv, Ukraine, 2 - 05 June 1998, pp.517-519
- VII. **Plane Wave Diffraction by a Resistive Strip**  
Veliev E. I., Kobayashi K., İKİZ T., Koshikawa S.  
MMET'96 VI. International conference on Mathematical Methods in Electromagnetic Theory, Lviv, Ukraine, 10 - 13 September 1996, pp.354-357
- VIII. **Analytical-Numerical Approach for the Solution of the Diffraction by a Resistive Strip**  
İKİZ T.  
Proceedings of the 1996 International Symposium on Antennas and Propagation, Chiba, Chiba, Japan, 24 - 27 September 1996, pp.5

**IX. Plane Wave Diffraction by a Resistive Strip**

İKİZ T.

6. International Conference on Mathematical Methods in Electromagnetic Theory, Lviv, Ukraine, 10 - 13 September 1996, pp.5

**X. Scattering of Plane Waves by an Impedance Strip: E-Polarized Case**

İKİZ T.

Proceedings of Joint 3. International Conference on Electromagnetics in Aerospace Applications and 7. European Electromagnetic Structures Conference, Torino, Italy, 14 - 17 September 1993, pp.5

**XI. Emedansa sahip bir şeritten Saçılan Alanın Hesabı için Numerik-Analitik Metod**

İKİZ T.

Elektrik Mühendisliği 5. Ulusal Kongresi, Trabzon, Turkey, 13 - 18 September 1993, pp.5

## Supported Projects

İKİZ T., Biçer M. B., AVŞAR AYDIN E., SERBEST A., Project Supported by Higher Education Institutions, "An Approximate Solution for the Plane Wave Diffraction by an Impedance Strip: H-Polarization Case", 2014 - 2016

## Scientific Consultations

TURKCELL İletişim Hizmetleri A.Ş.'nin Adana Bölgesinde Yer Alan Hücresel Baz İstasyonlarında Yapılan İnceleme ve Elektromanyetik Alan Ölçümlerine Dayanarak Hazırlanan Genel Değerlendirme Raporu, Scientific Consultancy, Turkey, 2002 - 2002

İŞ-TİM Telekomünikasyon A. Ş.'nin Adana Bölgesinde Yer Alan Hücresel Baz İstasyonlarında Yapılan İnceleme ve Elektromanyetik Alan Ölçümlerine Dayanarak Hazırlanan Genel Değerlendirme Raporu, Scientific Consultancy, Turkey, 2001 - 2001

## Metrics

Publication: 32

Citation (WoS): 11

Citation (Scopus): 17

H-Index (WoS): 2

H-Index (Scopus): 2