

# Prof. TANER ABDULLAH OĞUZER

## Personal Information

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Publons / Web Of Science ResearcherID: W-4047-2017

ScopusID: 66026113720

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## Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1992 - 1996

Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1989 - 1992

Undergraduate, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1984 - 1989

## Dissertations

Doctorate, Analysis of cylindrical reflector antennas in the presence of circular radomes by complex source oval series approach, Ihsan Dogramaci Bilkent University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1996

Postgraduate, The Examination of new equivalent edge currents in the prediction of high frequency backscattering from flat plates, Ihsan Dogramaci Bilkent University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1992

## Research Areas

Engineering and Technology

## Academic Titles / Tasks

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2008 - Continues  
Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 2003 - 2008

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, 1997 - 2003

## Academic and Administrative Experience

Dokuz Eylul University, 2011 - 2014

## Courses

Anatennas and Propagation, Undergraduate, 2021 - 2022  
Electromagnetic Theory, Undergraduate, 2021 - 2022  
Elektromagnetic Waves, Undergraduate, 2021 - 2022  
Complex Analysis, Undergraduate, 2019 - 2020  
Differential Equations, Undergraduate, 2018 - 2019  
Advanced Electromagnetic Theory, Postgraduate, 2015 - 2016  
Applied Optics, Postgraduate, 2011 - 2012  
Numerical Techniques in Electromagnetics, Postgraduate, 2007 - 2008  
High Frequency Techniques in Electromagnetics, Postgraduate, 2004 - 2005

## Advising Theses

OĞUZER T. A., İki boyutlu elektromanyetik saçılma için yeni ışın tipi Green fonksiyonları ile hibrit numerik teknikler, Doctorate, D.KUTLUAY(Student), 2020  
OĞUZER T. A., Elektromanyetik dalganın iki boyutlu ince dielektrik katmandan saçınımının modellenmesi, Postgraduate, A.YILDIRIM(Student), 2018  
Oğuzer T. A., Avgin İ., İnce ve eğrisel şerit yapıdaki tabaklı geometriden iki boyutlu saçınım probleminin incelenmesi, Doctorate, F.Kuyucuoğlu(Student), 2013  
Oğuzer T. A., Avgin İ., Elektromanyetik saçınım probleminin değişik geometriler için modellenmesi, Postgraduate, F.Kuyucuoğlu(Student), 2007  
Oğuzer T. A., Determination of the radiation characteristics of the 3d parabolic reflector antenna system by using high frequency techniques, Postgraduate, N.Ünaldı(Student), 2005  
Oğuzer T. A., İki boyutlu dairesel yansıtıcı anten sisteminin moment metodu ile numerik olarak simülasyonu, Postgraduate, A.Aybars(Student), 2001

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

- I. **A new approach to design multi section wideband transmissive absorber using thin resistive sheets and dielectric slabs**  
Oğuzer T. A., Kuyucuoğlu F.  
Optik, vol.277, 2023 (SCI-Expanded)
- II. **Localized Green's function using a beam-pattern for the fast modeling of 2D electromagnetic scattering**  
Oguzer T. A., Kutluay D.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.36, no.18, pp.2804-2826, 2022 (SCI-Expanded)
- III. **Reflection and transmission properties of a graphene-dielectric-thin resistive layer structure in the THz range**  
Oguzer T. A., Kuyucuoğlu F.  
OPTIK, vol.266, 2022 (SCI-Expanded)
- IV. **Improving radiation performance of the cylindrical dielectric reflector sandwiched by thin resistive layer illuminated by a complex line source**  
Kuyucuoğlu F., Oğuzer T. A.  
OPTIK, vol.245, 2021 (SCI-Expanded)
- V. **Evaluation of the E-polarization focusing ability in Thz range for microsize cylindrical parabolic reflector made of thin dielectric layer sandwiched between graphene**  
Oguzer T. A., ALTINTAŞ A.  
IET MICROWAVES ANTENNAS & PROPAGATION, vol.15, no.10, pp.1240-1248, 2021 (SCI-Expanded)

- VI. **Fast modeling of electromagnetic scattering from 2D electrically large PEC objects using the complex line source type Green's function**  
Kutluay D., Oguzer T. A.  
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, vol.11, no.3, pp.276-286, 2019 (SCI-Expanded)
- VII. **Analysis of a thin, penetrable, and non-uniformly loaded cylindrical reflector illuminated by a complex line source**  
Oguzer T. A., Kuyucuoglu F., AVGIN İ., ALTINTAŞ A.  
IET MICROWAVES ANTENNAS & PROPAGATION, vol.11, no.15, pp.2148-2154, 2017 (SCI-Expanded)
- VIII. **Focusing of THz waves with a microsize parabolic reflector made of graphene in the free space**  
Oguzer T. A., ALTINTAŞ A., Nosich A. I.  
JOURNAL OF THE EUROPEAN OPTICAL SOCIETY-RAPID PUBLICATIONS, vol.13, 2017 (SCI-Expanded)
- IX. **Analysis of an arbitrary-profile, cylindrical, impedance reflector surface illuminated by an E-polarized complex line source beam**  
Kuyucuoglu F., Oguzer T. A., AVGIN İ., ALTINTAŞ A.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.28, no.3, pp.360-377, 2014 (SCI-Expanded)
- X. **Analysis of the elliptic-profile cylindrical reflector with a non-uniform resistivity using the complex source and dual-series approach: H-polarization case**  
Oguzer T. A., ALTINTAŞ A., Nosich A. I.  
OPTICAL AND QUANTUM ELECTRONICS, vol.45, no.8, pp.797-812, 2013 (SCI-Expanded)
- XI. **Electromagnetic scattering from layered strip geometries: the method of moments study with the sinc basis**  
Oguzer T. A., Kuyucuoglu F., AVGIN İ.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.19, no.3, pp.397-412, 2011 (SCI-Expanded)
- XII. **Integral equation analysis of an arbitrary-profile and varying-resistivity cylindrical reflector illuminated by an E-polarized complex-source-point beam**  
Oguzer T. A., ALTINTAŞ A., Nosich A. I.  
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION, vol.26, no.7, pp.1525-1532, 2009 (SCI-Expanded)
- XIII. **Analysis of the nonconcentric reflector antenna-in-radome system by the iterative reflector antenna and radome interaction**  
Oguzer T. A., Altintas A.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.21, no.1, pp.57-70, 2007 (SCI-Expanded)
- XIV. **Analysis of the nonconcentric radome-enclosed cylindrical reflector antenna system, E-polarization case**  
Oguzer T. A., Altintas A.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.19, no.15, pp.2093-2111, 2005 (SCI-Expanded)
- XV. **Analysis of an arbitrary conic section profile cylindrical and the maximum cross-polarization level of the antenna was about reflector antenna, H-polarization case**  
Oguzer T. A., Nosich A., Altintas A.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.52, no.11, pp.3156-3162, 2004 (SCI-Expanded)
- XVI. **Analysis of a cylindrical reflector antenna encased in a concentric dielectric radome with a resistive or PEC inner circular grating**  
Oguzer T. A.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.16, no.4, pp.493-513, 2002 (SCI-Expanded)
- XVII. **E-polarized beam scattering by an open cylindrical PEC strip having an arbitrary "conical-section" profile**  
Oguzer T. A., Nosich A., Altintas A.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.31, no.6, pp.480-484, 2001 (SCI-Expanded)
- XVIII. **Analysis of circular reflector antenna covered by concentric dielectric radome**

- Oguzer T. A.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.49, no.3, pp.458-463, 2001 (SCI-Expanded)
- XIX. **ACCURATE SIMULATION OF REFLECTOR ANTENNAS BY THE COMPLEX SOURCE-DUAL SERIES APPROACH**  
OGUZER T. A., ALTINTAS A., NOSICH A.  
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.43, no.8, pp.793-801, 1995 (SCI-Expanded)
- XX. **ON THE ELIMINATION OF INFINITIES IN THE PO COMPONENT OF EQUIVALENT EDGE CURRENTS**  
OGUZER T. A., ALTINTAS A., BUYUKDURA O.  
WAVE MOTION, vol.18, no.1, pp.1-10, 1993 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **A hybrid approach in the fast modelling of 2D scattering from pec strip using Nystrom algorithm and the beam type Green'xxs function**  
OĞUZER T. A.  
2019 IEEE 39th international conference on electronics and nanotechnology, 16 - 18 April 2019
- II. **Electromagnetic Scattering of THz Waves from a Microsize Graphene-Sandwiched Thin Dielectric Strip**  
Oguzer T. A., ALTINTAŞ A.  
17th IEEE International Conference on Mathematical Methods in Electromagnetic Theory (MMET), Kyiv, Ukraine, 2 - 05 July 2018, pp.91-94
- III. **The Fast Computation of the Electromagnetic Scattering By Using the Complex Line Source Type Green's Function in the Method of Moments**  
Kutluay D., Oguzer T. A.  
5th IEEE Microwaves, Radar and Remote Sensing Symposium (MRRS), Kyiv, Ukraine, 29 - 31 August 2017, pp.224-228
- IV. **Scattering and Absorption Performance of a Microsize Graphene-Based Parabolic Reflector in the THz Range Illuminated by a Complex Line Source**  
Oguzer T. A., ALTINTAŞ A.  
XXIInd International Seminar Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED), Dnipro, Ukraine, 25 - 28 September 2017, pp.273-276
- V. **Focusing Ability of a Microsize Graphene-Based Cylindrical Reflector in the THz Range Illuminated by Electromagnetic Plane Wave**  
Oguzer T. A., ALTINTAŞ A.  
IEEE International Conference on Mathematical Methods in Electromagnetic Theory (MMET), Lviv, Ukraine, 5 - 07 July 2016, pp.232-235
- VI. **Electromagnetic scattering from arbitrary flat plates: Analysis of the problem by using method of moments with different sinc type basis functions**  
Ozbakis B., Oguzer T. A., Kustepeli A.  
2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, İstanbul, Turkey, 13 - 20 August 2011
- VII. **Effect of the off-focus shift of the feed on the radiation characteristics of a 2-D parabolic reflector antenna**  
Oğuzer T. A., Altintas A., Nosich A.  
2010 International Conference on Mathematical Methods in Electromagnetic Theory, MMET-10, Kyiv, Ukraine, 6 - 08 September 2010
- VIII. **ANALYSIS OF AN ARBITRARY PROFILE REFLECTOR ANTENNA HAVING RESISTIVE-TYPE SURFACE - H-POLARIZATION CASE**  
Oguzer T. A., Altintas A., Nosich A. I.  
International Conference on Mathematical Methods in Electromagnetic Theory, Odessa, Ukraine, 29 June - 02 July

2008, pp.323-325

- IX. **Analysis of the 2D nonconcentric large reflector antenna-in-radome system: H-polarization case**  
Oguzer T. A.  
10th International Conference on Mathematical Methods in Electromagnetic Theory, Dnepropetrovsk, Ukraine, 14 - 17 September 2004, pp.415-417
- X. **Radiation characteristics of a 2D parabolic microwave reflector antenna analyzed by the complex source-dual series approach**  
OĞUZER T. A., Nosich A., Altıntaş A.  
4th International Kharkov Symposium on Physics and Engineering of Millimeter and Sub-Millimeter Waves, MSMW 2001, Kharkiv, Ukraine, 4 - 09 June 2001, vol.2, pp.594-596
- XI. **ANALYSIS OF CIRCULAR REFLECTORS BY COMPLEX SOURCE-DUAL SERIES APPROACH**  
OGUZER T. A., ALTINTAS A., NOSICH A.  
1993 International Symposium Digest on Antennas and Propagation, Michigan, United States Of America, 28 June - 02 July 1993, pp.922-929

## Supported Projects

OĞUZER T. A., Project Supported by Higher Education Institutions, ELEKTROMANYETİK SAÇINIM PROBLEMİNİN NÜMERİK HİBRİD TEKNİKLERLE ANALİZİ, 2018 - 2020

## Metrics

Publication: 31

Citation (WoS): 163

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