

Prof. ABDULHAMİT SERBEST

Personal Information

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Education Information

Doctorate, Istanbul Technical University, Elektrik Fakültesi, Elektromanyetik Alanlar Bilim Dalı, Turkey 1978 - 1982

Post Graduate, Istanbul Technical University, Elektrik Fakültesi, Elektronik Ve Haberleşme Dalı, Turkey 1975 - 1977

Under Graduate, Istanbul Technical University, Elektrik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1975 - 1975

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Bir Küresel Reflektörün İçinde Yayılan Yüzey Dalgalarının Ayrıttan Saçılması, Istanbul Technical University, Elektrik Fakültesi, Elektromanyetik Alanlar Bilim Dalı, 1982

Post Graduate, Bir Sonsuz Doğru Boyunca Kırılmış Bir Ekrandan Elektromanyetik Dalgaların Saçılması, Istanbul Technical University, Elektrik Fakültesi, Elektronik Ve Haberleşme Dalı, 1977

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 Mühendisliği Bölümü, 1991 - Continues

Associate Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği Bölümü, 1987 - 1991

Associate Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, 1985 - 1987

Assistant Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, 1982 - 1985

Expert, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği Bölümü, 1981 - 1982

Research Assistant, Istanbul Technical University, Elektrik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 1975 - 1981

Professional Experience

Dean, Cukurova University, 1995 - 2002

Head of Department, Cukurova University, 1987 - 1999

Board Member, Cukurova University, Mühendislik Mimarlık Fakültesi, 1994 - 1996

Vice Dean, Cukurova University, 1984 - 1989

Courses

Interaction of Electromagnetic Waves With Anisotropic Media, Doctorate, 2013 - 2014

Advising Theses

SERBEST A., Diffraction of Plane Waves by an Impedance Half Plane in Cold Plasma, Post Graduate, Ş.Yener(Student), 2000

SERBEST A., Türkiye Elektronik Sanayii Sektörünün Konumu, Post Graduate, C.Eyerci(Student), 1999

SERBEST A., A Numerical-Analytical Method for Solving the Wave Diffraction Problem by an Impedance Strip, Doctorate, T.İkiz(Student), 1998

SERBEST A., Scattering of Plane Electromagnetic Waves at the Junction Formed by a PEC Half-Plane and a Half-Plane with Anisotropic Conductivity, Post Graduate, R.Şendağ(Student), 1996

SERBEST A., Scattering of Plane Waves by Corrugated Surfaces, Post Graduate, A.Kara(Student), 1996

SERBEST A., Diffraction by Thin Dielectric Strip and its Application to Modeling of Microwave Scattering and Absorption by Plant Elements, Post Graduate, A.Nadir(Student), 1995

SERBEST A., High-Frequency Diffraction by a Metallic Cap Located on a Dielectric Sphere, Doctorate, A.Yazıcı(Student), 1994

SERBEST A., Anizotrop Dielektrik bir Tabakadan Düzlemsel Elektromagnetik Dalgaların Saçılması, Post Graduate, A.Yazıcı(Student), 1990

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

- **Scattering of plane waves by an anisotropic dielectric half-plane**
Yazıcı A., Serbest A.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.47, pp.1476-1484, 1999 (Journal Indexed in SCI)
- **Diffraction of TE waves by a metallic cap located on a dielectric sphere: Ring source excitation outside the sphere**
Yazıcı A., Serbest A., Büyükaksoy A.
WAVE MOTION, vol.28, pp.259-282, 1998 (Journal Indexed in SCI)
- **Transition boundary conditions for simulation of thin chiral slab**
Lyalinov M. A. , Serbest A.
ELECTRONICS LETTERS, vol.34, pp.1211-1213, 1998 (Journal Indexed in SCI)
- **Diffraction coefficient for a half-plane with anisotropic conductivity**
Büyükaksoy A., Serbest A., Kara A.
IEE PROCEEDINGS-SCIENCE MEASUREMENT AND TECHNOLOGY, vol.143, pp.384-388, 1996 (Journal Indexed in SCI)
- **CALCULATION OF EXTINCTION CROSS-SECTION OF SINGLE VEGETATION ELEMENTS PLACED IN OPEN RESONATOR**
Vertiy A., Gavrilov S. P. , SERBES A., Özel M. E.
INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, vol.16, pp.271-284, 1995 (Journal Indexed in SCI)
- **THE DIFFRACTION OF AN E-POLARIZED PLANE-WAVE BY A RESISTIVE STRIP LOCATED ON A**

DIELECTRIC INTERFACE

Büyükaksoy A., Bıçakcı O., SERBEST A.

JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.8, pp.575-590, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Modeling of Microwave Emission and Scattering from Terrain**
Chuklantsev A., SERBEST A., Veliev E.
TURKISH JOURNAL OF PHYSICS, no.8, pp.965-969, 1995 (Other Refereed National Journals)
- **Gelismekte olan Üniversiteler Açısından Türkiye'de Elektrik ve Elektronik Mühendisliği Eğitimi**
SERBEST A.
Elektrik Mühendisliği Dergisi, vol.34, pp.628-632, 1989 (National Non-Refereed Journal)
- **Diffraction of Obliquely Incident Plane Wave by a Thin Dielectric Half-Plane**
SERBEST A.
Bulletin of Technical University of Istanbul, pp.655-664, 1988 (National Refereed University Journal)
- **Televizyon Alici Antenler**
SERBEST A.
Elektrik Mühendisliği Dergisi, pp.22-28, 1987 (National Non-Refereed Journal)

Books & Book Chapters

- **Yerel Ekonomik Gelişme Programı Adana Konfeksiyon Tesisi Projesi**
ÖNAL Y. B. , Serbest H., Koç E.
Tobb Türkiye Odalar Ve Borsalar Birliği, Ankara, 1998
- **in Modern Mathematical Methods in Diffraction Theory and its Applications in Engineering**
SERBEST A.
in: Recent Analytical Developments in Diffraction Theory, Serbest H., Editor, Peter Lang GmbH, Frankfurt, pp.203-217, 1997
- **Pitman Research Notes in Mathematics Series-361**
SERBEST A.
in: Direct and Inverse Electromagnetic Scattering, Serbest A. H., Cloude S. R., Editor, Addison Wesley Longman Ltd, Büyük Britanya, pp.1-0, 1996
- **in Analytical and Numerical Methods in Electromagnetic Theory, Chapter 6**
SERBEST A.
in: Matrix Wiener-Hopf Factorization Methods and Applications to Some Diffraction Problems, Hashimoto M., Idemen M., Tretyakov A., Editor, Science House Co., Tokyo, pp.257-315, 1993
- **in Analytical and Numerical Methods in Electromagnetic Theory, Chapter 5**
SERBEST A.
in: Some Asymptotic Techniques for Strip and Slit Problems, Hashimoto M., Idemen M., Tretyakov A., Editor, Science House Co., Tokyo, pp.229-256, 1993
- **in Radar Cross-Sections of Complex Objects**
SERBEST A.
in: High-Frequency Diffraction by Curved Strips, Ross Stone W., Editor, Ieee Press, Newyork, pp.229-314, 1990

Refereed Congress / Symposium Publications in Proceedings

- **Reflection and refraction by an anisotropic metamaterial slab with diagonal anisotropy**
SERBEST A.

Microwaves, Communications, Antennas and Electronic Systems (COMCAS), 2015 IEEE International Conference on, Tel-Aviv, Israel, 2 - 04 November 2015, pp.1-4

● **Meme Kanseri Tespiti için Çift-Çıkıntılı Horn Anten Kullanarak Deneysel ve Simülasyon Sonuçlarının Değerlendirilmesi**

SERBEST A., AVŞAR AYDIN E.

● URSI TÜRKİYE'2014 VII. Bilimsel Kongresi, Elazığ, Turkey, 28 - 30 August 2014, pp.1-4

● **?Diffraction of Plane Waves by an impedance half-plane in Diffraction of Plane Waves by an impedance half-plane in cold plasma**

Yener Ş., SERBEST A.

● International Workshop on Direct and Inverse Electromagnetic Scattering, Kocaeli, Turkey, 25 - 29 November 2000, pp.1-3

● **Diffraction of Plane Waves by an impedance half-plane in cold plasma**

SERBEST A.

● International Workshop on Direct and Inverse Electromagnetic Scattering, Kocaeli, Turkey, 25 - 29 September 2000, pp.1

● **Diffraction of Plane Waves by Chiral Half-Planes**

SERBEST A.

● International Workshop on Operator Theory and Applications, Faro, Portugal, 11 - 15 September 2000, pp.1

● **Plane Wave Diffraction by Two Parallel Thin Semi- Infinite Chiral Slabs**

SERBEST A.

● Day on Diffraction-2000,, St Petersburg, Russia, 29 May - 02 June 2000, pp.1

● **Diffraction of plane waves by an impedance half-plane in cold plasma**

Sahin I., Serbest A., Lyalinov M.

● International Conference on Microwave and Millimeter Wave Technology Proceedings, Beijing, China, 18 - 20 August 1998, pp.569-572

● **Recent Analytical Developments in Diffraction Theory**

SERBEST A.

● Sommerfeld'96 Workshop; Modern Mathematical Methods in Diffraction Theory and Its Applications in Engineering,, Freudenstadt, Germany, 30 September - 04 October 1996, pp.1

● **Measurement of Gasoline Purity by Microwave Techniques**

SERBEST A.

● 1995 Asia-Pasific Microwave Conference (APMC'95), Taejon, North Korea, 10 - 13 October 1995, pp.1

● **UHF Bandı TV Verici İstasyonları İçin Yer Seçimi**

Şendağ R., SERBEST A.

● Elektrik Mühendisliği 6. Ulusal Kongresi, Bursa, Turkey, 11 - 17 September 1995, pp.566-571

● **Yüzey Dalgalarının Oluklu Yapıdan Saçılması**

Kara A., SERBEST A.

● Elektrik Mühendisliği 6. Ulusal Kongresi, Bursa, Turkey, 11 - 17 September 1995, pp.594-597

● **On Rawlins' Trifurcated Waveguide Problem**

Lüneburg E., SERBEST A.

● PIERS'95, Seattle, United States Of America, 1 - 02 July 1995, pp.556

● **Diffraction by a Metallic Cap Located on a Dielectric Sphere : Ring Source Excitation Inside the Sphere**

Yazıcı A., SERBEST A., Büyükaksoy A.

● " 3rd International Conference on Electromagnetics in Aerospace Applications, Torino, Italy, 14 - 17 November 1993, pp.319-322

● **Modelling of Microwave Emission and Scattering from Terrain**

Chucklantsev A. A. , SERBEST A., Veliev E.

● First Eurasian Symposium on Space Sciences and Technologies, Kocaeli, Turkey, 25 October - 27 November 1993, pp.1

● **"Diffraction From the Discontinuity Formed by a Resistive Half-Plane and a Metal-Backed Dielectric**

Half-Plane

SERBEST A., Büyükaksoy A.

XXIV'th General Assembly of the International Union of Radio Science, Kyoto, Japan, 25 August - 02 October 1993, pp.64

● A Scattering of Plane Waves at the Junction of Two Corrugated Half-Planes

SERBEST A., Lüneburg E.

Microwave Signature-92, Innsburg, Austria, 1 - 03 July 1992, pp.1

● Alt Yüzeyi Mükemmel İletken, Üst Yüzeyi Empedans Özelliği Gösteren Bir Seritten Düzlemsel Dalgaların Ardisik Kirinimi

Büyükaksoy A., Uzgören G., SERBEST A.

Elektrik Mühendisliği 3. Ulusal Kongresi, İstanbul, Turkey, 25 - 30 September 1989, pp.323-326

● Farklı İki Dielektrik Ortamın Ara Yüzeyine Yerleştirilmiş Mükemmel İletken Bir Seritten Düzlemsel Dalgaların Ardisik Kirinimi

SERBEST A., Büyükaksoy A., Uzgören G.

Elektrik Mühendisliği 3. Ulusal Kongresi, İstanbul, Turkey, 25 - 30 September 1989, pp.319-322

● Farklı Dielektrik Özelliklere Sahip İki Yarım Düzlemin Olusturduğu Süreksizlikten Elektromagnetik Dalgaların Kirinimi Elektrik-Elektronik Mühendisliği Bölümü 30. Yıl Sempozyumu

Büyükaksoy A., Uzgören G., SERBEST A.

" ODTÜ Elektrik-Elektronik Mühendisliği Bölümü 30. Yıl Sempozyumu, Ankara, Turkey, 9 - 10 February 1989, pp.319-322

● Anizotrop İki Yarım Düzlemin Olusturduğu Süreksizlikten Düzlemsel Dalgaların Kirinimi

SERBEST A., Büyükaksoy A., Uzgören G.

ODTÜ Elektrik-Elektronik Mühendisliği Bölümü 30. Yıl Sempozyumu, Ankara, Turkey, 9 - 10 February 1989, pp.323-326

● Farklı İki Dielektrik Ortamın Sınır Yüzeylerine Yerleştirilmiş Rezistif Yarım Düzlemden Düzlemsel Dalgaların Saçılması

SERBEST A.

Elektrik Mühendisliği II. Ulusal Kongresi, Ankara, Turkey, 09 September 1987, vol.1, pp.318-320

● Bir Yarısı Rezistif Diğer Yarısı Empedans Özelliği Gösteren Sonsuz Geniş Bir Düzlemden Saçılma

SERBEST A.

Elektrik Mühendisliği II. Ulusal Kongresi, Ankara, Turkey, 09 September 1987, vol.1, pp.321-323

● Farklı İki Dielektrik Ortam Arasındaki Rezistif Şeritten Düzlemsel Dalgaların Ardışık Kirinimi

SERBEST A.

Elektrik Mühendisliği II. Ulusal Kongresi, Ankara, Turkey, 04 January 1987, vol.1, pp.301-304

● Çembersel Kesitli Silindirik Reflektörün Arka Işıması

SERBEST A.

Elektrik Mühendisliği I Ulusal Kongresi, Adana, Turkey, 01 January 1985, pp.52-57

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

Activities in Scientific Journals

Elektrik Mühendisleri Odası (EMO) Bilimsel Dergisi, First Editor, 2013 - Continues

Citations

Total Citations (WOS):15

h-index (WOS):3