

Dr. Tuncay Ege's Resume



Name/Surname Tuncay Ege
Place & Date of Birth Ankara 27.1.1948
Title Professor (Full) Dr.
University İzmir University, Electronics & Communication Engineering Dept.
Fields of Research Antennas, Microwaves, Electromagnetic Fields

Education:

Primary Schools Anıttepe İlkokulu, Ankara 1954-1955
Maltepe İlkokulu, Ankara 1955-1959
Middle School TED Ankara College, Ankara 1959-1963
High School TED Ankara College, Ankara 1963-1966
University; BSc Middle East Technical University, Ankara
Electrical Engineering Dept.
From October 1966 to June 1970.
MSc Middle east Technical University, Ankara
Electrical Engineering Dept.
From June 1970 to November 1971
MSc Thesis: *Investigation of Errors in Aerial Far Field Pattern Measurements.*
Ph.D Imperial College of Science and Technology, London, England
From November 1971 to January 1975.
Ph.D. Thesis: *The Application of Numerical Methods to Certain Electromagnetic Wave Problems.*

Degrees & Titles Earned;

Professor 30 May 1988
Associate Prof. 8 April 1982
Assistant Prof. 2 May 1976
Instructor 2 May 1975
Dr. (Ph.D) 29 January 1975
Engineer (MSc) 18 November 1971
Engineer (BSc) 31 July 1970

Professional Activities;

I.) At the University:

a. May 1975-May 1976: Instructor – Electrical Engineering Dept. Middle East Technical University, Gaziantep Campus

b. May 1976-April 1982: Assistant Professor - Electrical Engineering Dept. Middle East Technical University, Gaziantep Campus

c. Nisan 1982-Eylül 1983: Associate Professor - Electrical Engineering Dept. Middle East Technical University, Gaziantep Campus

d. September 1985-October 1986: Having spent the time abroad between September 1983-September 1985 I started to work as an associate professor at the Electrical Engineering Dept. Middle East Technical University, Gaziantep Campus.

e. 30 May 1988-11 October 2010 Returned from England and started to work as a full time Professor at the Electrical & Electronics Engineering Dept. Gaziantep University. Retired from this position on 11th October 2010.

f. 12 October 2010 Started to work as a full time professor at the Electronics & Communication Engineering Department, İzmir University.

II.) Professional Activities Carried Outside the University:

a. September 1983-September 1985: I worked as a “Consultant Principal Research Engineer” at ERA (The Electrical Research Association) in Surrey, England.

b. October 1986-May 1988: I worked as a “Senior Principal Research Engineer” at ERA (The Electrical Research Association) in Surrey, England.

Administrative Duties;

I.) Middle East Technical University Gaziantep Engineering Faculty;

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|------------------------------------------------------|--------------------------------|
| a. Assistant Chairman – Electrical Eng. Dept. | May 1980 – November 1980 |
| b. Chairman – Electrical Eng. Dept. | November 1980 – December 1981 |
| c. Assistant Dean – Faculty of Engineering | December 1981 – September 1983 |
| d. Chairman – Electrical Engineering | May 1986 – October 1986 |

II.) Gaziantep University;

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|----------------------------------------------------|---------------------------|
| a. Dean Faculty of Engineering | June 1988 – July 1994 |
| b. Assistant Rector | June 1988 – July 1994 |
| c. Chairman – Electrical & Electronics Eng. | March 1996 – August 2004 |
| b. Provost | August 2004 – August 2008 |

In addition to the above administrative duties, I was the head of the Telecommunications Group in the Electrical & Electronics Eng. Department, Gaziantep University.

III.) Izmir University;

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|-----------------------------------------|-----------------|
| a. Dean - Faculty of Engineering | November 2010 – |
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Thesis Supervised

Ph.D:

1. Uçkun Savaş – “*Analysis of Thick Meander Line Polarizers*”; METU, April 1992

2. Ünal Emin – “*Evaluation of the Attenuation Constant For Curved Cylindrical Hollow Dielectric or Metallic Waveguides*”; Gaziantep University, May 1994.

3. **Koca A. Oğuzhan** – “*Analysis of Frequency Selective Surfaces on Chiral Slab*”; Gaziantep University, March 1997.
4. **Öğücü Gölge Hatice** – “*Conductors on Multilayer Media as Radiating Elements*”; Gaziantep University, December 2004.
5. **Uzer Ali** – “*Plane Wave Incidence onto a Cylindrical Frequency Selective Surface Comprising of Metal Strips*”; Gaziantep University, May 2005.
6. **Nacaroğlu Cemal** – “*Effects of Novel Materials on the Scattering by an Array of Printed Triangular-Shaped Conductors*”; Gaziantep University ([Continuing](#))

Master Thesis:

1. **Ataş Tahsin** – “*The Effect of Different Subsectional Testing Functions in the Numerical Solution of Thin Center-Fed Dipoles*”; METU, June 1983.
2. **Dinç Ahmet** – “*Analysis of E-Plane Metal Insert Filters in Rectangular and Cylindrical Waveguides*”; METU, February 1987.
3. **Koca A. Oğuzhan** – “*Guided Waves Through Chiral Medium*”; Gaziantep University, February 1992.
4. **Budak Ali Hakan** – “*Line Capacitance & Characteristic Impedance Calculation Methods for Microstrip Transmission Lines*”; Gaziantep University, September 1993.
5. **Demir Oğuz** – “*Scattering by an Infinite Periodic Array of Rings on a Chiral Slab*”; Gaziantep University, February 1997.
6. **Öğücü Gölge** – “*PML Concept for Reflectionless Absorption of Electromagnetic Waves*”; Gaziantep University, August 1998.
7. **Uzer Ali** – “*A Cylindrical Frequency Selective Surface Comprising of Metal Strips*”; Gaziantep University, December 1998.
8. **Ertürk Ümit** – “*Scattering From an Infinite Array of L-Shaped Conductors on Chiral Slab*”; Gaziantep University, January 2003.
9. **Pekmezci Ayşegül** – “*Analysis of Thin Triangular Conducting Elements Printed on Planar Dielectric Slabs*”; Gaziantep University, January 2010.

Publications in Refereed International Journals: (1982-)

1. K Delihacıoğlu, S. Uçkun, **T. Ege**; “*FSS Comprised of One- and Two-Turn Square Spiral Shaped Conductors on Dielectric Slab*”, Progress in Electromagnetics Research B, Vol 6, 81-92, 2008.

2. K Delihacıoğlu, S. Uçkun, **T. Ege**; “*Scattering Characteristics of FSS Comprised of L-Shaped and One-Turn Helix Shaped Conductors for TE and TM Excitation*”, *Electrical Engineering*, 89, 177-181, 2007.
3. K Delihacıoğlu, S. Uçkun, **T. Ege**; “*Frequency Selective Surfaces Comprised of Periodic Arrays of Two-Turn Square Helix Shaped Conductors*”, *International Journal of Electronics and Communications-AEU*, 61, 182-185, 2007.
4. K Delihacıoğlu, S. Uçkun, **T. Ege**; “*Scattering Characteristics of One- and Two-Turn Square Spiral FSSs on Chiral Slab*”, *Journal of Optoelectronics and Advanced Materials*, 9, 2676-2680, September 2007.
5. Kemal Delihacıoğlu, Savaş Uçkun, **Tuncay Ege**; “*L-Shaped Frequency Selective Surfaces as Conduction Elements on Chiral Slab*”, *Journal of Optoelectronics and Advanced Materials*, 8, 1390-1401, August 2006.
6. S.Uçkun, **T.Ege**; “*Concentric Rings as Frequency Selective Surfaces on Isotropic Chiral Slabs*”, *Microwave and Optical Technology Letters*, 79-83, January 2006.
7. S.Uçkun, **T.Ege**; “*Three Concentric Rings as Frequency Selective Surfaces on Isotropic Chiral Slabs*”, *Journal of Optoelectronics and Advanced Materials*, 8, 345-349, February 2006.
8. A. Uzer, **T. Ege**; “*Scattering from Periodically Spaced Longitudinal Slots on a Conducting Cylinder*” *Electrical Engineering*, 87, 291-293, October 2005.
9. A. Uzer, **T. Ege**; “*On the Convergence Acceleration of Slowly Convergent Sums Involving Oscillating Terms*”, *Computing*, 75, 311-318, 2005
10. A. Uzer, **T. Ege**; “*Scattering from Dielectric Cylindrical Shell Periodically Loaded with Metallic Patches*” *Electronics Letters*, 41, 680-682, 2005.
11. A. Uzer, **T. Ege**; “*Radiation from a Current Filament Located Inside a Cylindrical Frequency Selective Surface*”, *ETRI Journal*, 26, 481-484, 2004.
12. G. Öğücü, **T. Ege**; “*A New Update Algorithm in a Finite-Difference Time-Domain Implementation of Anisotropic Perfectly Matched Layer*”, *Electrical Engineering*, 85, 109-111, 2003.
13. A. Uzer, **T. Ege**; “*An Improved Convergence Acceleration Method for the Strip Grating Cylindrical Surface Problem*”, *Electrical Engineering*, 86, 55-60, 2003.
14. A.O.Koca,**T.Ege**; “*Frequency Selective Surfaces on Isotropic Chiral Slab*”, *AEU Int.Journal of Electronics and Communications*, 52, 17-24, 1998
15. **T.Ege**, A.O.Koca; “*Scattering by Frequency Selective Surfaces Supported by an Isotropic Chiral Slab*” *Advances in Complex Electromagnetic Materials*, ed. A. Priou, A. Sihvola, S.

Tretyakov NATO ASI series High Technology, Vol.28, 189-200,1997, Kluwer Academic Publishers.

16. A.O.Koca, **T.Ege**; “*A Novel Frequency Selective Surface, Chiro-FSS*”, Microwave and Optical Technology Letters, Vol.10, p.157-160, 1995.

17. **T.Ege**; “*Analysis of a Septum Polariser Orthomode Transducer Used on Spacecraft Antennas*”, Turkish Journal of Physics, Vol.19, p.1494-1497, 1995.

18. S.Uçkun, **T.Ege**; “*Computation of Susceptance for Thick Meander-Line Polariser*”, Electronics Letters, s.2076-2077, Ekim 1991.

19. **T.Ege**, P.McAndrew; “*Analysis of Stepped Septum Polarisers*”, Electronics Letters, Vol.21, Kasım 1985, 1166-1168.

20. **T.Ege**; “*Propagation Constant of Waves Along a Periodically Series Loaded TEM Line*”, Microwaves & RF, vol.28. p144. 1983.

Papers submitted to International Conferences (1982 -)

1. Ayşegül Pekmezci, **Tuncay Ege**; “*Düzlemsel Dielektrik Levha Üzerine Yerleştirilmiş İkizkenar Üçgen Şeklindeki İletken Elemanların Analizi*”, URSI-2010, Cyprus 25-27 August 2010

2. A. Pekmezci, **T.Ege**; “*Frequency Selective Surfaces With Thin Triangular Conducting Elements*”, PIERS 2010, Cambridge, USA, 5-8 June 2010.

3. Ali Uzer, Emin Ünal, **Tuncay Ege**, “*Convergence Acceleration Method Developed by the Use Euler-Maclaurin Summation Formula for Computations of Infinite Sums Involving Oscillating Terms*”, 4th International Workshop on Electromagnetic Wave Scattering-EWS 2006, pp 11_91-11_96, September 2006.

4. Kemal Delihacıoğlu, Savaş Uçkun, **Tuncay Ege**; “*FSS Comprised of One- and Two-Turn Square Spiral Shaped Conductors on Dielectric Slab*”, 4th International Workshop on Electromagnetic Wave Scattering-EWS 2006, pp 11_37-11_42, September 2006.

5. G. Ögücü, **T. Ege**; “*A New Update Algorithm in FDTD Implementation of Anisotropic PML as an Absorbing Boundary Condition*”, 2000 IEEE AP-S Int.Symposium Proceedings, 1366-1369, Utah 2000.

6. S.Uçkun, **T.Ege**; “*On the Incompatibility of Chirality Parameter α and Chirality Admittance ξ of Chiral Media*”, 1999 IEEE AP-S Int. Symposium Proceedings, 1974-1977 Florida 1999

7. **T.Ege**, A.O.Koca; “*Scattering by Frequency Selective Surfaces Supported by an Isotropic Chiral Slab*”, International Workshop on Electromagnetics of Chiral, Bi-Isotropic and Bi-Anisotropic Media, CHIRAL’96, 26 July-4 August, St.Petersburg 1996.

8. A.O.Koca, **T.Ege**; “*The Reflection and Transmission Characteristics of a FSS Comprising of Crossed Dipoles on a Chiral Slab*”, 8th Mediterranean Electrotechnical Conference, MELECON 96, 13-16 May, Bari 1996.

9. A.O.Koca, **T.Ege**; “*Effects of Chiral Loading on Frequency Selective Surfaces Comprised of Two Dimensional Array of Crossed Dipoles*”, 1996 IEEE/AP-S Symposium, Baltimore, Maryland 1996.

10. **T.Ege**, A.O.Koca; “*Effect of Chiral Loading on Frequency Selective Surfaces Comprising of Arrays of Rings*”, Progress in Electromagnetics Research Symposium, PIERS 1996, 8-12 July, Innsbruck 1996.

11. **T.Ege**; “*Scattering by a Two Dimensional Periodic Array of Conducting Rings on a Chiral Slab*”, 1995 IEEE/AP-S Symposium, p.1667-1670, Newport Beach, California 1995.

12. E.Ünal, **T.Ege**; “*Effect of Curvature on Attenuation Constant in Hollow Circular Waveguides*”, 7th Mediterranean Electrotechnical Conference, MELECON 94, s.457-460, Antalya, Turkey 1994.

13. **T.Ege**; “*Analysis of a Septum Polariser Orthomode Transducer Used on Spacecraft Antennas*”, 1st Eurasian Symposium on Space Science and Technologies, 25-27 October 1993, Gebze, Turkey.

14. F.J.Foity, F.Mederios, **T.Ege**; “*An Octave Band Omnidirectional Slant 45° Polarised Antenna*”, QMC Symposium, 24-25 March 1988, England.

15. **T. Ege**; “*FSS Activiies at ERA-Selected Notes from Informal Meeting on Satellite Antennas*”, European Space Agency, Holland 30-31 October 1984.

16. **T.Ege**; “*Determination of the Propagation Constant of the Waves Traveling Along a TEM-Line Periodically Series Loaded With Lumped Capacitors*”, 13th European Microwave Conference, Nürnberg, Germany 1983.

Papers submitted to National Conferences (1982 -)

1. A. Uzer, **T. Ege**; “*Metal Şeritlerden Oluşmuş Silindirik Frekans Seçici Yüzey*”, Elektrik Mühendisleri 9. Ulusal Kongresi, s. 255-258, 6-12 Eylül 1999, Gaziantep.

2. Gölge Öğücü, **Tuncay Ege**; “*İki Boyutlu TM Probleminde PML Emici Sınır Şartının Uygulanması*”, Elektrik Mühendisleri 9. Ulusal Kongresi, s.237-239, 6-12 Eylül 1999, Gaziantep.

3. S. Uçkun, T. Ege; “Bakımsızlık Parametresi a ve Geçirgenliği ξ Arasındaki Uyumsuzluk”, Elektrik Mühendisleri 9. Ulusal Kongresi, s. 226-228, 6-12 Eylül 1999, Gaziantep.

4. A.O.Koca, T.Ege; “Dikdörtgen Biçimli İnce İletkenlerle Oluşturulmuş Frekans Seçici Yüzeylerin Tüm Domen Fonksiyonları Kullanılarak Analizi”, Elektrik Mühendisliği 6. Ulusal Kongresi, s.629-632, Bursa 1995.

5. A.O.Koca, T.Ege; “Düzlemsel Dalgaların Chiral Madde ile Desteklenmiş Frekans Seçici Yüzeylerden Saçılması”, Elektrik Mühendisliği 6. Ulusal Kongresi, s.586-589, Bursa 1995.

6. O.Koca, T.Ege; “Chiral Dalga Kılavuzları”, Elektrik Mühendisliği 5. Ulusal Kongresi, s. 439-443, 13-18 Eylül 1993 Trabzon.

7. E.Ünal, T.Ege; “İçi Boş Silindirik Dalga Kılavuzlarında Kavislerden Dolayı Kayıp Katsayısındaki Değişimin İncelenmesi”, Elektrik Müh. 5. Ulusal Kongresi, s.434-438, Eylül 1993 Trabzon

8. S.Uçkun, T.Ege; “Menderes Biçimli Polarizörlerin Karakteristiklerinin Nümerik Metodla Tayini”, Elektrik Mühendisleri 4. Ulusal Kongresi, s. 428-431, 16-22 Eylül 1991, İzmir.

9. T. Ege; “Mikrodalga Açıklık Antenlerinin Tanıtılması”, Yaz Okulu Ders Notları , Çukurova Üniversitesi, 12-13 Eylül 1988.

Projects Carried out at ERA (Electrical Research Assosiation)- England (1983-85 ; 1986-88)

1. T.Ege and N.Williams; “*Study of Electromagnetic Shielding Windows*”, January 1988.

2. T.Ege; “*Polarisation Sensitive Gridded ReflectorAntenna*”, December 1987.

3. T.Ege; “*Polarisation Sensitive Gridded Reflector Antenna-Review of the Art*”, July 1987.

4. T.Ege; “*Design, Manufacture and Characterisation of Frequency Selective Surfaces-Design of Frequency Selective Surfaces*”, February 1987.

5. P.McAndrew, T.Ege, I.Davies; “*Paper Design of a Low Cost Electronically Scanned Tacan Antenna*”, July 1985

6. P.McAndrew, T.Ege, N.D.Dang; “*Design and Development of an End Entry/OMT Polariser*”, March 1985.

7. T.Ege, Y.Kalatizadeh, B.Caydon; “*Frequency Selective Surfaces for Communication Satellite Antennas*”, March 1985.

8. T.Ege; *“FSS Activities at ERA-Selected Notes from Informal Meeting on Satellite Antennas”*, European Space Agency, Holland 30-31 October 1984.

9. T.Ege, B.Caydon; *“Critical Review of State of the Art in the Design and Analysis of Frequency Selective Surfaces for Satellite Communication Antennas”*, February 1984