

## Prof. CELAL YILDIZ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAS-9167-2021

ScopusID: 35576957100

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### Education Information

Doctorate, Erciyes University, Fen Bilimleri Ens., Elektronik , Turkey 1988 - 1992

Postgraduate, Istanbul Technical University, Fen Bilimleri Ens., Elektronik Hab., Turkey 1985 - 1988

Undergraduate, Erciyes University, Müh.Fak, Elektronik Müh., Turkey 1978 - 1982

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, 4 - N, N - Dimethylamino 3 - Acetamidonitrobenzene (DAN) Çekirdekli Optik Fiber Yapıda İkinci Harmonik Üretim Veriminin Analizi , Erciyes Üniversitesi, Fen Bilimleri Ens., Elektronik Müh., 1992

Postgraduate, Bir yüzü mükemmel elektrik iletken diğer yüzü mükemmel magnetik iletken şeritten saçılma, İstanbul Teknik Üniversitesi, Fen Bilimleri Ens., Elektronik Hab., 1988

### Research Areas

Electrical and Electronics Engineering, Electronic, Microwave Circuits, Engineering and Technology

### Academic Titles / Tasks

Professor, Erciyes University, Müh. Fak., Elk-Eln. Müh., 2010 - Continues

Associate Professor, Erciyes University, Müh.Fak., Elek-Eln Müh. , 2005 - 2010

Assistant Professor, Erciyes University, Müh.Fak, Elektronik Müh., 1993 - 2005

Research Assistant, Erciyes University, Müh.Fak., Elektronik Müh., 1984 - 1993

### Academic and Administrative Experience

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

- I. **Closed-form design equations for asymmetric coplanar strip line with an infinitely wide strip**  
YILDIZ C., Kisioglu H., ÖZTÜRK C.  
ELECTROMAGNETICS, vol.37, no.6, pp.411-421, 2017 (SCI-Expanded)
- II. **Very simple synthesis formulas for microcoplanar striplines**  
YILDIZ C., Kisioglu H.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.55, no.3, pp.615-619, 2013 (SCI-Expanded)
- III. **ANFIS MODELS FOR SYNTHESIS OF OPEN SUPPORTED COPLANAR WAVEGUIDES**  
Kaya S., Guney K., YILDIZ C., TÜRKMEN M.  
NEURAL NETWORK WORLD, vol.23, no.6, pp.553-569, 2013 (SCI-Expanded)
- IV. **ANFIS models for synthesis of micro-coplanar stripline and asymmetric coplanar stripline with an infinitely wide strip**  
Kaya S., Guney K., YILDIZ C., TÜRKMEN M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.54, no.2, pp.460-467, 2012 (SCI-Expanded)
- V. **NEW AND ACCURATE SYNTHESIS FORMULAS FOR ASYMMETRIC CONDUCTOR-BACKED COPLANAR WAVEGUIDES**  
KAYA S., Guney K., YILDIZ C., TÜRKMEN M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.53, no.1, pp.211-216, 2011 (SCI-Expanded)
- VI. **ANFIS MODELS FOR THE QUASISTATIC ANALYSIS OF COPLANAR STRIP LINE STRUCTURES**  
TÜRKMEN M., YILDIZ C., Guney K., Kaya S.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.52, no.9, pp.1990-1996, 2010 (SCI-Expanded)
- VII. **NEW AND ACCURATE SYNTHESIS FORMULAS FOR OPEN SUPPORTED COPLANAR WAVEGUIDES**  
Kaya S., Guney K., YILDIZ C., TÜRKMEN M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.52, no.2, pp.262-269, 2010 (SCI-Expanded)
- VIII. **ADAPTIVE-NETWORK-BASED FUZZY INFERENCE SYSTEM MODELS FOR COMPUTING THE CHARACTERISTIC IMPEDANCES OF AIR-SUSPENDED TRAPEZOIDAL AND RECTANGULAR-SHAPED MICROSIELD LINES**  
TÜRKMEN M., YILDIZ C., Guney K., Kaya S.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.52, no.1, pp.20-24, 2010 (SCI-Expanded)
- IX. **Comparison of adaptive-network-based fuzzy inference system models for analysis of conductor-backed asymmetric coplanar waveguides**  
TÜRKMEN M., YILDIZ C., GÜNEY K., KAYA S.  
Progress In Electromagnetics Research M, vol.8, pp.1-13, 2009 (SCI-Expanded)
- X. **Accurate synthesis formulas obtained by using a differential evolution algorithm for conductor-backed coplanar waveguides**  
KAYA S., GÜNEY K., YILDIZ C., TÜRKMEN M.  
Progress In Electromagnetics Research M, vol.10, pp.71-81, 2009 (SCI-Expanded)
- XI. **ANALYSIS OF CONDUCTOR-BACKED COPLANAR WAVEGUIDES USING ADAPTIVE-NETWORK-BASED FUZZY INFERENCE SYSTEM MODELS**  
YILDIZ C., Guney K., TÜRKMEN M., Kaya S.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.51, no.2, pp.439-445, 2009 (SCI-Expanded)
- XII. **New and Accurate Synthesis Formulas for Asymmetric Coplanar Stripline with an Infinitely Wide Strip**  
Guney K., YILDIZ C., KAYA S., TÜRKMEN M.  
JOURNAL OF INFRARED MILLIMETER AND TERAHERTZ WAVES, vol.30, no.2, pp.109-116, 2009 (SCI-Expanded)
- XIII. **Synthesis formulas for microcoplanar striplines**

- Guney K., YILDIZ C., Kaya S., TÜRKMEN M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.50, no.11, pp.2884-2888, 2008 (SCI-Expanded)
- XIV. **Adaptive neuro-fuzzy models for the quasi-static analysis of microstrip line**  
YILDIZ C., Guney K., TÜRKMEN M., Kaya S.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.50, no.5, pp.1191-1196, 2008 (SCI-Expanded)
- XV. **Synthesis formulas for conductor-backed coplanar waveguide**  
YILDIZ C., TÜRKMEN M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.50, no.4, pp.1115-1117, 2008 (SCI-Expanded)
- XVI. **Accurate and simple synthesis formulas for coplanar waveguides**  
Akdagli A., TÜRKMEN M., YILDIZ C.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.18, no.2, pp.112-117, 2008 (SCI-Expanded)
- XVII. **ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM FOR THE COMPUTATION OF THE CHARACTERISTIC IMPEDANCE AND THE EFFECTIVE PERMITTIVITY OF THE MICRO-COPLANAR STRIP LINE**  
Sarıkaya N., Güney K., Yildiz C.  
Progress In Electromagnetics Research B, vol.6, pp.225-237, 2008 (SCI-Expanded)
- XVIII. **Synthesis formulas for multilayer homogeneous coupling structure with ground shielding**  
Guney K., YILDIZ C., KAYA S., TÜRKMEN M.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.21, no.14, pp.2073-2084, 2007 (SCI-Expanded)
- XIX. **New and accurate synthesis formulas for multilayer homogeneous coupling structure**  
Guney K., Yildiz C., Kaya S., Turkmen M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.49, no.10, pp.2486-2489, 2007 (SCI-Expanded)
- XX. **Neural models for the V-shaped conductor-backed coplanar waveguides**  
Guney K., Yildiz C., Kaya S., Turkmen M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.49, no.6, pp.1294-1299, 2007 (SCI-Expanded)
- XXI. **Neural models for coplanar strip line synthesis**  
Yildiz C., Guney K., Turkmen M., Kaya S.  
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.69, pp.127-144, 2007 (SCI-Expanded)
- XXII. **Neural models for quasi-static analysis of conventional and supported coplanar waveguides**  
Yildiz C., Guney K., Turkmen M., Kaya S.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.61, no.8, pp.521-527, 2007 (SCI-Expanded)
- XXIII. **Neural models for the broadside-coupled V-shaped microshield coplanar waveguides**  
Guney K., Yildiz C., Kaya S., Turkmen M.  
International Journal of Infrared and Millimeter Waves, vol.27, no.9, pp.1241-1255, 2006 (SCI-Expanded)
- XXIV. **Simple and accurate synthesis formulas obtained by using a differential evolution algorithm for coplanar strip lines**  
Yildiz C., AKDAGLI A., TURKMEN M.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.48, no.6, pp.1133-1137, 2006 (SCI-Expanded)
- XXV. **Artificial neural networks for calculating the characteristic impedance of air-suspended trapezoidal and rectangular-shaped microshield lines**  
Guney K., Yildiz C., Kaya S., Turkmen M.  
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.20, no.9, pp.1161-1174, 2006 (SCI-Expanded)
- XXVI. **Very accurate and simple CAD models based on neural networks for coplanar waveguide synthesis**  
Yildiz C., TURKMEN M.  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.15, no.2, pp.218-224, 2005 (SCI-Expanded)
- XXVII. **New and very simple synthesis formulas for coplanar strip line**  
Yildiz C.  
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.44, no.2, pp.199-202, 2005 (SCI-Expanded)
- XXVIII. **Neural analysis of top shielded multilayered coplanar waveguides**

- TÜRKMEN M., YILDIZ C., SAĞIROĞLU Ş.  
 Turkish Journal of Electrical Engineering and Computer Sciences, vol.12, no.1, pp.1-10, 2004 (SCI-Expanded)
- XXIX. **New and very simple CAD models for coplanar waveguide synthesis**  
 Yildiz C., TURKMEN M.  
 MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.41, no.1, pp.49-53, 2004 (SCI-Expanded)
- XXX. **Neural model for coplanar waveguide sandwiched between two dielectric substrates**  
 Yildiz C., Sagiroglu S., TURKMEN M.  
 IEE PROCEEDINGS-MICROWAVES ANTENNAS AND PROPAGATION, vol.151, no.1, pp.7-12, 2004 (SCI-Expanded)
- XXXI. **A CAD approach based on artificial neural networks for shielded multilayered coplanar waveguides**  
 Yildiz C., TURKMEN M.  
 AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.58, no.4, pp.284-292, 2004 (SCI-Expanded)
- XXXII. **Simple models based on neural networks for suspended and inverted microstrip lines**  
 Yildiz C., Saracoglu O.  
 MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.39, no.5, pp.383-389, 2003 (SCI-Expanded)
- XXXIII. **Neural models for coplanar waveguides with a finite dielectric thickness**  
 Yildiz C., SAGIROGLU S., Saracoglu O.  
 INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.13, no.6, pp.438-446, 2003 (SCI-Expanded)
- XXXIV. **Neural models for an asymmetric coplanar stripline with an infinitely wide strip**  
 Yildiz C., SAGIROGLU S., Saracoglu O., TURKMEN M.  
 INTERNATIONAL JOURNAL OF ELECTRONICS, vol.90, no.8, pp.509-516, 2003 (SCI-Expanded)
- XXXV. **A multilayered perceptron neural network for a micro-coplanar strip line**  
 SAGIROGLU S., Yildiz C.  
 ELECTROMAGNETICS, vol.22, no.7, pp.553-563, 2002 (SCI-Expanded)
- XXXVI. **Neural models for the resonant frequency of electrically thin and thick circular microstrip antennas and the characteristic parameters of asymmetric coplanar waveguides backed with a conductor**  
 Yildiz C., GULTEKIN S., GUNAY K., SAGIROGLU S.  
 AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.56, no.6, pp.396-406, 2002 (SCI-Expanded)
- XXXVII. **Determination of the design parameters for the optical second harmonic generation efficiency in organic crystal-cored fibers**  
 Yildiz C., Ozsoy S.  
 JAPANESE JOURNAL OF APPLIED PHYSICS PART 2-LETTERS & EXPRESS LETTERS, vol.36, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **VERY SIMPLE AND ACCURATE COMPUTER-AIDED-DESIGN (CAD) MODELS DEVELOPED BY GENETIC PROGRAMMING FOR THE QUASI-STATIC ANALYSIS OF UNSHIELDED SUSPENDED AND INVERTED MICROSTRIP LINES**  
 YILDIZ C., KISIOGLU H.  
 ISTANBUL UNIVERSITY-JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.17, no.2, 2017 (ESCI)
- II. **Neural models for the elliptic- and circular-shaped microshield lines**  
 KAYA S., TÜRKMEN M., GÜNEY K., YILDIZ C.  
 Progress In Electromagnetics Research B, vol.6, pp.169-181, 2008 (Scopus)
- III. **Quasi-static models based on artificial neural networks for calculating the characteristic parameters of multilayer cylindrical coplanar waveguide and strip line**  
 YILDIZ C., TÜRKMEN M.  
 Progress In Electromagnetics Research B, vol.3, pp.1-22, 2008 (Scopus)
- IV. **Adaptive neuro-fuzzy models for conventional coplanar waveguides**

TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.

Progress In Electromagnetics Research B, vol.6, pp.93-107, 2008 (Scopus)

V. **SIMPLE MODEL FOR THE INPUT IMPEDANCE OF RECTANGULAR MICROSTRIP ANTENNA**

YILDIZ C., GÜNEY K.

Pamukkale University Journal of Engineering Sciences, vol.4, pp.733-738, 1998 (Peer-Reviewed Journal)

## Supported Projects

YILDIZ C., GÖRGÜÇ Ö., Project Supported by Higher Education Institutions, Elektromanyetik Fırlatıcı Tasarımı ve Mermi Çıkış Hızı Ölçüm Sistemi, 2013 - 2019

GÜNEY K., KAYA S., TÜRKMEN M., YILDIZ C., Project Supported by Higher Education Institutions, İletken Destekli Eş Düzlemli Dalga Kılavuzlarının Esnek Hesaplama Yöntemleri İle Sentezi, 2009 - 2011

YILDIZ C., TÜRKMEN M., Project Supported by Higher Education Institutions, KOPLANAR HATLAR İÇİN BULANIK MANTIK SİSTEMİNE DAYALI UYARLANIR AĞ TABANLI CAD MODELLER, 2006 - 2009

YILDIZ C., TÜRKMEN M., Project Supported by Higher Education Institutions, MİKRODALGA İLETİM HATLARI İÇİN YAPAY SİNİR AĞI TABANLI CAD MODELLER, 2004 - 2006

## Metrics

Publication: 62

Citation (WoS): 276

Citation (Scopus): 315

H-Index (WoS): 10

H-Index (Scopus): 11

## Non Academic Experience

ERCİYES ÜNİVERSİTESİ

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