

Prof. CELAL YILDIZ

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Education Information

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

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Ens., Elektronik Hab., Turkey 1985 - 1988

Under Graduate, Erciyes Üniversitesi, 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

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

Research Areas

Technical Sciences, Electrical and Electronics Engineering, Electronic, Microwave Circuits

Academic Titles / Tasks

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

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

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

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

Academic and Administrative Experience

Erciyes Üniversitesi, Müh.Fak, Elk-Eln Müh., 1996 - Continues

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

- 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 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- VIII. **ADAPTIVE-NETWORK-BASED FUZZY INFERENCE SYSTEM MODELS FOR COMPUTING THE CHARACTERISTIC IMPEDANCES OF AIR-SUSPENDED TRAPEZOIDAL AND RECTANGULAR-SHAPED MICROSHIELD LINES**
TÜRKMEN M., YILDIZ C., Guney K., Kaya S.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.52, no.1, pp.20-24, 2010 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **Synthesis formulas for conductor-backed coplanar waveguide**
YILDIZ C., TÜRKMEN M.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.50, no.4, pp.1115-1117, 2008 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM FOR THE COMPUTATION OF THE CHARACTERISTIC IMPEDANCE AND THE EFFECTIVE PERMITTIVITY OF THE MICRO-COPLANAR STRIP LINE**

- Sarikaya N., Güney K., Yildiz C.
Progress In Electromagnetics Research B, vol.6, pp.225-237, 2008 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)

- XXX. **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 (Journal Indexed in SCI)
- XXXI. **A multilayered perceptron neural network for a micro-coplanar strip line**
SAGIROGLU S., Yildiz C.
ELECTROMAGNETICS, vol.22, no.7, pp.553-563, 2002 (Journal Indexed in SCI)
- XXXII. **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., GÜNEY K., SAGIROGLU S.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.56, no.6, pp.396-406, 2002 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)

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 (Journal Indexed in ESCI)
- II. **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, (PIER M), vol.10, pp.71-81, 2009 (Refereed Journals of Other Institutions)
- III. **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, (PIER M), vol.8, pp.1-13, 2009 (Refereed Journals of Other Institutions)
- IV. **Neural models for the elliptic- and circular-shaped microshield lines**
KAYA S., TÜRKMEN M., GÜNEY K., YILDIZ C.
Progress In Electromagnetics Research B, (PIER B), vol.6, pp.169-181, 2008 (Refereed Journals of Other Institutions)
- V. **Adaptive Neuro-Fuzzy Models For Conventional Coplanar Waveguides**
TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.
Progress In Electromagnetics Research B, (PIER B), vol.6, pp.93-107, 2008 (Refereed Journals of Other Institutions)
- VI. **Quasi-static models based on artificial neural networks for calculating the characteristic parameters of multilayer cylindrical coplanar waveguide and strip line**
Yıldız C., Türkmen M.
PROGRESS IN ELECTROMAGNETICS RESEARCH M, pp.1-10, 2008 (Refereed Journals of Other Institutions)
- VII. **SIMPLE MODEL FOR THE INPUT IMPEDANCE OF RECTANGULAR MICROSTRIP ANTENNA**
YILDIZ C., GÜNEY K.

Refereed Congress / Symposium Publications in Proceedings

- I. **İletken Tabanlı Asimetrik Eş Düzlemli Dalga Kılavuzlarının Karakteristik Parametrelerinin Bulanık Mantık Sistemine Dayalı Uyarlanırlı Ağ ile Hesaplanması**
Yildiz C., Güney K., Sarıkaya N.
URSI-2004, Ankara, Turkey, 08 September 2004 - 10 September 2004, pp.103-105
- II. **Characteristic Impedance Analysis of a Slot Line with the Use of Adaptive Neuro-Fuzzy Inference System**
TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.
30th Annual Antenna Measurement Techniques Association (AMTA) Symposium, United States Of America, 1 - 04 November 2008, pp.145-150
- III. **Şerit Hatların Karakteristik Empedanslarının Bulanık Mantık Sistemine Dayalı Uyarlanırlı Ağlar ile Hesaplanması**
TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.
Union Radio-Scientifique Internationale Türkiye, URSI 2008, Antalya, Turkey, 1 - 04 October 2008, pp.309-312
- IV. **Adaptive Neuro-Fuzzy Inference System for Calculating the Characteristic Impedances of Multilayer Homogeneous Coupling Structures**
TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.
Electromagnetic Wave Scattering, EWS 2008, Turkey, 1 - 04 October 2008, vol.11, pp.15-20
- V. **Analysis of Coplanar Waveguide with Upper and Bottom Shielding by using Neuro-Fuzzy Models**
TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.
Conference for Computer-Aided Engineering and System Modeling, Turkey, 1 - 04 November 2007, pp.1-9
- VI. **Adaptive Neuro-Fuzzy Inference System for the Computation of the Characteristic Impedance and the Effective Permittivity of the Micro-Coplanar Strip Line**
SARIKAYA BAŞTÜRK N., GÜNEY K., YILDIZ C.
IV. International Workshop on Electromagnetic Wave Scattering EWS-2006, 18 - 22 September 2006, pp.73-78
- VII. **Sandviç Eş Düzlemli Dalga Kılavuzlarının Analizleri için Bulanık Mantık Sistemine Dayalı Uyarlanırlı Ağ Modelleri**
TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.
Union Radio-Scientifique Internationale Türkiye, URSI 2006, Ankara, Turkey, 1 - 04 September 2006, pp.389-391
- VIII. **Neuro-Fuzzy Models for Coplanar Waveguide on an Infinitely Thick Dielectric Substrate**
TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.
Conference for Computer-Aided Engineering and System Modeling, Turkey, 1 - 04 September 2006, pp.1-7
- IX. **Dairesel Mikroekranlı Hatların Quasi-Statik Analizinin Yapay Sinir Ağları ile Gerçekleştirilmesi**
KAYA S., TÜRKMEN M., GÜNEY K., YILDIZ C.
Union Radio-Scientifique Internationale Türkiye, URSI 2006, Ankara, Turkey, 1 - 04 September 2006, pp.379-381
- X. **Neuro-Fuzzy Models for Conventional Coplanar Waveguides**
TÜRKMEN M., KAYA S., YILDIZ C., GÜNEY K.
Electromagnetic Wave Scattering, EWS 2006, Turkey, 1 - 04 September 2006, vol.11, pp.85-90
- XI. **CAD Models Based on Artificial Neural Networks for Sandwiched Coplanar Striplines**
TÜRKMEN M., Özcan O., KAYA S., YILDIZ C., GÜNEY K.
Conference for Computer-Aided Engineering and System Modeling, Turkey, 1 - 04 November 2005, pp.1-6
- XII. **Tek Toprak Düzlemine Sahip İletken Destekli Eş Düzlemli Dalga Kılavuzlarının Yapay Sinir Ağları ile Modellenmesi**
KAYA S., TÜRKMEN M., GÜNEY K., YILDIZ C.
Conference for Computer-Aided Engineering and System Modeling, Turkey, 1 - 04 November 2005, pp.7-12
- XIII. **İki Katmanlı Dielektrik Tabana Sahip Alt ve Üst Korumalı Eş Düzlemli Dalga Kılavuzlarının Yapay Sinir Ağları ile Modellenmesi**

TÜRKMEN M., KAYA S., YILDIZ C.

Union Radio-Scientifique Internationale Türkiye, URSI 2004, Ankara, Turkey, 1 - 04 September 2004, pp.42-44

XIV. **Neural model for conventional coplanar waveguide sandwiched between two dielectric substrates**

Turkmen M., YILDIZ C., SAGIROGLU S.

IEEE International Symposium on Electromagnetic Compatibility (EMC), İstanbul, Turkey, 11 - 16 May 2003, pp.296-299

XV. **Asılı ve Ters Mikroşerit Hatların Karakteristik Empedanslarının Hesaplanmasında Yeni Bir Yaklaşım Yapay Sinir Ağları**

YILDIZ C., Sağiroğlu Ş., SARAÇOĞLU O., TÜRKMEN M.

ELEKTRİK - ELEKTRONİK ve BİLGİSAYAR MÜHENDİSLİĞİ SEMPOZYUMU, Bursa, Turkey, 1 - 04 December 2002, pp.159-163

XVI. **Yapay Sinir Ağları ile Sonlu Dielektrik Tabanlı Geleneksel Eş Düzlemli Dalga Kılavuzlarının Quasi-Statik Analizlerinin Gerçekleştirilmesi**

YILDIZ C., Sağiroğlu Ş., TÜRKMEN M., SARAÇOĞLU O.

ELEKTRİK - ELEKTRONİK ve BİLGİSAYAR MÜHENDİSLİĞİ SEMPOZYUMU, Bursa, Turkey, 1 - 04 December 2002, pp.154-158

XVII. **Yapay Sinir Ağları ile Eş Düzlemli Silindirik Dalga Kılavuzlarının Quasi Statik Analizlerinin Gerçekleştirilmesi**

YILDIZ C., Sağiroğlu Ş., TÜRKMEN M., SARAÇOĞLU O.

URSİ Türkiye 2002 Birinci Ulusal Kongresi, İstanbul, Turkey, 1 - 04 September 2002, pp.38-41

XVIII. **Asılı ve Ters Mikroşerit Hatların Efektif Dielektrik Sabitlerinin Yapay Sinir Ağları ile Modellenmesi**

YILDIZ C., Sağiroğlu Ş., SARAÇOĞLU O., TÜRKMEN M.

URSİ Türkiye 2002 Birinci Ulusal Kongresi, İstanbul, Turkey, 1 - 04 September 2002, pp.24-27

Supported Projects

YILDIZ C., GÖRGÜÇ Ö., Project Supported by Higher Education Institutions, ELEKTROMANYETİK FİRLATICI TASARIMI, 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

Citations

Total Citations (WOS):248

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