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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Matematik Mühendisliği, Türkiye 2001 - 2005

Araştırma Alanları

Mühendislik ve Teknoloji

Verdiği Dersler

Analitik Geometri, Lisans, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Mühendisler İçin Matematiksel Metodlar, Yüksek Lisans, 2015 - 2016

integral dönüşümler, Lisans, 2016 - 2017, 2015 - 2016

İleri Analiz 1, Lisans, 2015 - 2016

Diferansiyel Denklemler, Lisans, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Numerical simulation for fractional optimal control problems via euler wavelets**
Turan Dincel A., Tural Polat S. N., Afacan M. O.
Physica Scripta, cilt.99, sa.9, 2024 (SCI-Expanded)
- II. **Wavelet methods for fractional electrical circuit equations**
TURAL POLAT S. N., Dincel A. T.
Physica Scripta, cilt.98, sa.11, 2023 (SCI-Expanded)
- III. **Hermite Wavelet Method for Nonlinear Fractional Differential Equations**
TURAN DİNCEL A., TURAL POLAT S. N., Sahin P.
Fractal and Fractional, cilt.7, sa.5, 2023 (SCI-Expanded)
- IV. **Solution Method for Systems of Nonlinear Fractional Differential Equations Using Third Kind Chebyshev Wavelets**
Tural Polat S. N., Turan Dincel A.
Axioms, cilt.2023, sa.12, ss.546, 2023 (SCI-Expanded)
- V. **Euler Wavelet Method as a Numerical Approach for the Solution of Nonlinear Systems of Fractional Differential Equations**
TURAL POLAT S. N., TURAN DİNCEL A.

Fractal and Fractional, cilt.7, sa.3, 2023 (SCI-Expanded)

- VI. **Numerical solution method for multi-term variable order fractional differential equations by shifted Chebyshev polynomials of the third kind**
TURAL POLAT S. N., TURAN DİNCEL A.
Alexandria Engineering Journal, cilt.61, sa.7, ss.5145-5153, 2022 (SCI-Expanded)
- VII. **Fourth kind Chebyshev Wavelet Method for the solution of multi-term variable order fractional differential equations**
Dincel A. T., TURAL POLAT S. N.
ENGINEERING COMPUTATIONS, cilt.39, sa.4, ss.1274-1287, 2022 (SCI-Expanded)
- VIII. **Flow field analysis of grooved surfaces**
Bayraktar S., Tekercioglu R., Dincel A.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, cilt.16, sa.9, ss.5365-5368, 2019 (SCI-Expanded)
- IX. **Solution to fractional-order Riccati differential equations using Euler wavelet method**
TURAN DİNCEL A.
Scientia Iranica, cilt.26, ss.1608-1616, 2019 (SCI-Expanded)
- X. **Investigation of energy release rate under mode II loading in a rectangular orthotropic plate with a band crack using 3D finite element analysis**
TURAN DİNCEL A.
Arabian Journal Of Geosciences, cilt.12, ss.1-5, 2019 (SCI-Expanded)
- XI. **Calculation and 3D analyses of ERR in the bandcrack front contained in a rectangular plate made of multilayered material**
TURAN DİNCEL A., SURKHAY A.
OPEN CHEMISTRY, cilt.16, ss.516-519, 2018 (SCI-Expanded)
- XII. **Mathematical modelling and 3D FEM analysis of the influence of initial stresses on the ERR in a band crack's front in the rectangular orthotropic thick plate**
Dincel A., AKBAROV S.
Computers, Materials and Continua, cilt.53, sa.3, ss.249-270, 2017 (SCI-Expanded)
- XIII. **On the Energy Release Rate at the Crack Tips in a Finite Pre-Strained Strip**
AKBAROV S., TURAN A.
CMC-COMPUTERS MATERIALS & CONTINUA, cilt.24, sa.3, ss.257-270, 2011 (SCI-Expanded)
- XIV. **ENERGY RELEASE RATE IN A PRESTRESSED SANDWICH PLATE-STRIP CONTAINING INTERFACE CRACKS**
AKBAROV S., TURAN A.
MECHANICS OF COMPOSITE MATERIALS, cilt.45, sa.6, ss.597-608, 2009 (SCI-Expanded)
- XV. **Mathematical modelling and the study of the influence of initial stresses on the SIF and ERR at the crack tips in a plate-strip of orthotropic material**
AKBAROV S., TURAN A.
APPLIED MATHEMATICAL MODELLING, cilt.33, sa.9, ss.3682-3692, 2009 (SCI-Expanded)
- XVI. **Influence of initial stresses on stress intensity factors at crack tips in a composite**
AKBAROV S., YAHNİOĞLU N., TURAN DİNCEL A.
Mechanics Of Composite Materials, cilt.40, ss.299-308, 2004 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Genocchi polynomial method for the multiterm variable-order fractional differential equations**
TURAL POLAT S. N., TURAN DİNCEL A.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, cilt.40, sa.1, ss.79-84, 2022 (ESCI)
- II. **A sine-cosine wavelet method for the approximation solutions of the fractional Bagley-Torvik**

equation

TURAN DİNCEL A.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, cilt.40, sa.1, ss.150-154, 2022 (ESCI)

- III. **Efficient Method for the Solution of Fractional-order Differential Equations with Variable Coefficients**
TURAN DİNCEL A.
European Journal of Science and Technology, ss.205-210, 2019 (Hakemli Dergi)
- IV. **The Effect of the Shear Modulus on Planes which is Perpendicular to the Crack's Edge-planes and Parallel to the Crack's Front on the ERR in an Orthotropic Rectangular Prism with a Band Crack**
TURAN DİNCEL A.
Afyon Kocatepe University Journal of Sciences and Engineering, cilt.17, ss.338-345, 2017 (Hakemli Dergi)
- V. **INFLUENCE OF THE INITIAL STRESSES ON THE ENERGY RELEASERATE IN A COMPOSITE BEAM WITH SINGLE EDGE-CRACK**
TURAN DİNCEL A.
Academic Journal of Science, cilt.5, ss.493-498, 2016 (Hakemli Dergi)
- VI. **The Comparison of the Initial Stresses Influence on Stress Intensity Factor of Mode I and Mode II at the Crack Tips in a Composite Strip**
TURAN DİNCEL A.
Academic Journal of Science, cilt.3, ss.65-73, 2014 (Hakemli Dergi)
- VII. **On loss of stability of a strip with two parallel macro-cracks under finite precritical deformation**
TURAN DİNCEL A., AKBAROV S.
INTERNATIONAL APPLIED MECHANICS, cilt.46, sa.3, ss.359-365, 2010 (Scopus)
- VIII. **ÇATLAK İÇEREN ÖNGERİLMELİ ŞERİTTEKİ GERİLME BİRİKİMİ ŞİDDETİ FAKTÖRÜ NÜN SONLU ELEMANLAR YÖNTEMİ İLE HESAPLANMASINDA SİNGÜLER SONLU ELEMANLARIN ETKİSİ**
TURAN DİNCEL A.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, cilt.23, ss.16-24, 2005 (ESCI)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A Numerical Method for Linear Fractional Differential Equations**
Şahin P., Turan Dincel A., Tural Polat S. N.
International Conference on Applied Physics and Mathematics, Lisbon, Portekiz, 29 - 30 Ocak 2022, ss.47
- II. **Fourth-Kind Chebyshev Wavelets Based Approximation Method for Solving Bagley-Torvik Equation**
TURAN DİNCEL A.
International Natural Science, Engineering and Material Technologies Conference, İstanbul, Türkiye, 9 - 10 Eylül 2019, ss.29
- III. **Taylor Wavelet Method for Solving Fractional-order Differential Equations**
TURAN DİNCEL A.
5th International Conference on Computational and Experimental Science and Engineering, 12 - 16 Ekim 2018
- IV. **Investigation of energy release rate under mode II loading in a rectangular orthotropic plate with a band crack using 3D finite element analysis**
TURAN DİNCEL A.
International Conference on Sustainable Sciences and Technology, 12 - 16 Ekim 2018
- V. **Flow Field Analysis of Grooved Surfaces**
BAYRAKTAR S., Tekercioglu R., TURAN DİNCEL A.
4th International Conference on Computational and Experimental Science and Engineering, Antalya, Türkiye, 4 - 08 Ekim 2017
- VI. **Calculation and 3D ERR Analyses in the Band Crack Front Contained in a Rectangular Plate Made of**

Multilayered Material

TURAN DİNCEL A., AKBAROV S. D.

4th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING, 4 - 08 Ekim 2017

- VII. **Legendre-Wavelet Galerkin Method for the Solution of Fractional Order Differential Equations System**
Seçer A., Taşçı F., Turan Dincel A., Tekercioğlu R.
ICCESEN 2017, Antalya, Türkiye, 04 Ekim 2017, cilt.1, sa.1, ss.204
- VIII. **Calculation and 3D ERR Analyses in the band crack front contained in the rectangular plate made of multilayered material Rectangular Plate Made of Multilayered Material**
TURAN DİNCEL A., AKBAROV S.
4th International Conference on Computational and Experimental Science and Engineering, Antalya, Türkiye, 04 Ekim 2017, cilt.1, sa.1, ss.516
- IX. **On the ERR at the Band Crack Front in a Rectangular Prism**
TURAN DİNCEL A.
82nd The IIER International Conference, Almanya, 3 - 04 Ekim 2016
- X. **Influence of the Initial Stresses on the Energy Release Rate in a composite beam with single edge crack**
TURAN DİNCEL A.
International journal art and sciences, 3 - 06 Kasım 2015
- XI. **On the Energy Release Rate in a composite thick plate with band crack**
TURAN DİNCEL A.
XVII International on Mechanics of Composite Materials, 26 - 30 Mayıs 2014
- XII. **Fractional Supersymmetric $sl(2)$: $U_{35}(sl(2))$ and $U_{36}(sl(2))$**
UÇAN Y., KÖŞKER R., TEKERCİOĞLU R., TURAN DİNCEL A.
IECMSA-2013: 2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Kosova, 26 Ağustos 2013, ss.217
- XIII. **Some spectral properties of singular Sturm Liouville problem**
TURAN DİNCEL A.
International Journal of Arts and Sciences, 1 - 04 Aralık 2008
- XIV. **Energy Release Rate in a Prestressed Sandwich Plate Strip Containing Interfacial Cracks**
AKBAROV S., TURAN DİNCEL A.
XV International Conference - Mechanics of Composite Materials, Letonya, 26 - 30 Mayıs 2008
- XV. **The Influence of the Initial Stresses on Stress Intensity Factor of Mode II at the Crack Tips in a Composite Strip**
AKBAROV S., TURAN DİNCEL A.
Conference on Damage in Composite Materials: Simulation and Non-Destructive Testing, Almanya, 18 - 19 Eylül 2006
- XVI. **On The Energy Release Rate at crack tips in a Finite prestrained strip**
AKBAROV S., TURAN DİNCEL A.
FOURTEENTH INTERNATIONAL CONFERENCE MECHANICS OF COMPOSITE MATERIALS, 29 Mayıs - 02 Haziran 2006, ss.8-9
- XVII. **The Influence of the Finite Initial Strain-State to the SIF of Mode I at the Crack Tips in a Strip**
AKBAROV S., TURAN DİNCEL A.
Twelfth Annual International Conference on Composites/Nano Engineering, İspanya, 1 - 06 Ağustos 2005
- XVIII. **Influence of Initial Stresses on Stress Intensity Factors at Crack Tips in a Composite Strip**
AKBAROV S., YAHNIOĞLU N., TURAN DİNCEL A.
Thirteenth International Conference, Mechanics of Composite Materials, Letonya, 16 - 20 Mayıs 2004
- XIX. **On the Determination of the SIF at the Macro-Crack Tips in the Pre-stretched Anisotropic Strip**
YAHNIOĞLU N., TURAN DİNCEL A.
6th International Fracture Conference, Konya, Türkiye, 10 Eylül 2003, ss.20-24

- XX. **Çatlak içeren öngerilmeli şeritte gerilme birikimi şiddeti faktörüne öngerilmenin etkisi**
YAHNİOĞLU N., Turan A.
13. Ulusal Mekanik Konferansı 8-12 Eylül 2003 Gaziantep Üniversitesi-Gaziantep, 2003, 01 Eylül 2003
- XXI. **Mathematical Modelling of Friction, Wear and Lubrication in Artificial Hip Joints**
TURAN DİNCEL A., Turan A.
The International Journal of Arts & Sciences (IJAS) Conferences,Orlando,USA

Desteklenen Projeler

TURAL POLAT S. N., TURAN DİNCEL A., Yükseköğretim Kurumları Destekli Proje, Kesirli Mertebeden Elektrik Devre Denklemlerinin Dalgacık Yöntemleri ile Yaklaşık Çözümleri, 2021 - 2022

Metrikler

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