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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Lehigh University, Makina Mühendisliği, Amerika Birleşik Devletleri 1998 - 2002

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Türkiye 1995 - 1997

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Türkiye 1990 - 1995

Araştırma Alanları

Makina Mühendisliği

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2013 - Devam Ediyor

Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2013 - Devam Ediyor

Yönetilen Tezler

Dağ S., FONKSİYONEL OLARAK DERECELENDİRİLMİŞ PİEZOELEKTRİK ENERJİ TOPLAYICILARIN ZAYIF BİÇİMLİ KARELEME ELEMAN YÖNTEMİ İLE SERBEST VE ZORLANMIŞ TİTREŞİM ANALİZİ, Yüksek Lisans, R.Sarper(Öğrenci), 2023

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DAĞ S., Rijit bir zımba ile kayma temasına maruz kalan ortotropik ortamdaki bir yüzey çatlağı, Doktora, D.Sarıkaya(Öğrenci), 2014

DAĞ S., A surface crack in an orthotropic medium subjected to sliding contact by a rigid stamp, Doktora, D.SARIKAYA(Öğrenci), 2014

DAĞ S., ORAL S., Design of a vehicle barrier, Yüksek Lisans, E.METİN(Öğrenci), 2013

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DAĞ S., Fatigue and fracture analysis of helicopter fuselage structures, Yüksek Lisans, R.ÖZCAN(Öğrenci), 2013

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DAĞ S., Jk-integral formulation and implementation for thermally loaded orthotropic functionally graded materials, Yüksek Lisans, E.ERHAN(Öğrenci), 2008

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B.SABUNCUOĞLU(Öğrenci), 2006
DAĞ S., KADIOĞLU F. S., Buckling driven delamination of orthotropic functionally graded materials, Yüksek Lisans,
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method, Yüksek Lisans, B.DEMİRÇİVİ(Öğrenci), 2006
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DAĞ S., Yanal yönde elastik derecelenmiş bir yüzeyin temas mekaniği, Yüksek Lisans, A.Cihan(Öğrenci), 2003
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A.CİHAN(Öğrenci), 2003

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Effects of translaminar edge crack and fiber angle on fracture toughness and crack propagation behaviors of laminated carbon fiber composites**
Asan A. M., Kaman M. O., DAĞ S., Erdem S., Turan K.
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- II. **Investigation of the translaminar fracture behavior of the fiber-reinforced composites stitched perpendicular to their plane**
Asan A. M., Kaman M. O., DAĞ S., Erdem S., Turan K.
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- III. **MAGNETOELECTROELASTIC RESPONSE OF FUNCTIONALLY GRADED MULTIFERROIC COATINGS UNDER MOVING HERTZIAN CONTACT**
TOKTAŞ S. E., DAĞ S.
Journal of Mechanics of Materials and Structures, cilt.19, sa.3, ss.343-371, 2024 (SCI-Expanded)
- IV. **Cracking of a functionally graded coating due to sliding contact with heat generation**
BALCI M. N., DAĞ S., YILDIRIM B.
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- V. **Mechanics of moving contacts involving functionally graded multiferroics**
TOKTAŞ S. E., DAĞ S.
Archives of Mechanics, cilt.75, sa.4, ss.431-468, 2023 (SCI-Expanded)
- VI. **Computational elastodynamics of functionally graded thick-walled cylinders and annular coatings subjected to pressure shocks**
Abeidi A., DAĞ S.
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- VII. **Multi-layer model for moving contact problems of functionally graded coatings with general variations in physical properties**
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PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, cilt.236, sa.10, ss.1967-1980, 2022 (SCI-Expanded)

- VIII. **Stresses in multi-layer coatings in Hertzian contact with a moving circular punch**
TOKTAŞ S. E., DAĞ S.
Tribology International, cilt.171, 2022 (SCI-Expanded)
- IX. **Transient dynamic analysis of functionally graded micro-beams considering small-scale effects**
Eshraghi I., Dag S.
ARCHIVES OF MECHANICS, cilt.73, sa.4, ss.303-337, 2021 (SCI-Expanded)
- X. **Oblique surface cracking and crack closure in an orthotropic medium under contact loading**
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THEORETICAL AND APPLIED FRACTURE MECHANICS, cilt.109, 2020 (SCI-Expanded)
- XI. **Forced vibrations of functionally graded annular and circular plates by domain-boundary element method**
Eshraghi I., DAĞ S.
ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, cilt.100, sa.8, 2020 (SCI-Expanded)
- XII. **Moving contact problems involving a rigid punch and a functionally graded coating**
Balci M. N., DAĞ S.
APPLIED MATHEMATICAL MODELLING, cilt.81, ss.855-886, 2020 (SCI-Expanded)
- XIII. **Mechanics of dynamic contact of coated substrate and rigid cylindrical ended punch**
Balci M. N., DAĞ S.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, cilt.33, sa.5, ss.2225-2240, 2019 (SCI-Expanded)
- XIV. **Solution of the dynamic frictional contact problem between a functionally graded coating and a moving cylindrical punch**
BALCI M. N., DAĞ S.
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- XV. **Thermal effect on bending, buckling and free vibration of functionally graded rectangular micro-plates possessing a variable length scale parameter**
Aghazadeh R., Dağ S., Ciğeroğlu E.
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- XVI. **Dynamic frictional contact problems involving elastic coatings**
BALCI M. N., DAĞ S.
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- XVII. **Hyperbolic heat conduction based weight function method for thermal fracture of functionally graded hollow cylinders**
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- XVIII. **Modelling of graded rectangular micro-plates with variable length scale parameters**
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- XIX. **Domain-boundary element method for elastodynamics of functionally graded Timoshenko beams**
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- XX. **Contact mechanics problem between an orthotropic graded coating and a rigid punch of an arbitrary profile**
ARSLAN O., DAĞ S.
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- XXI. **Subsurface stresses in graded coatings subjected to frictional contact with heat generation**
BALCI M. N., DAĞ S., YILDIRIM B.
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- XXII. **Free vibration analysis of functionally graded rectangular nanoplates considering spatial variation of the nonlocal parameter**
Ghassabı A. A., Dağ S., Ciğeroğlu E.

- ARCHIVES OF MECHANICS, cilt.69, ss.105-130, 2017 (SCI-Expanded)
- XXIII. **Surface cracking in an orthotropic medium subjected to frictional contact**
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- XXIV. **Bending and free vibrations of functionally graded annular and circular micro-plates under thermal loading**
Eshraghi I., DAĞ S., Soltani N.
COMPOSITE STRUCTURES, cilt.137, ss.196-207, 2016 (SCI-Expanded)
- XXV. **Consideration of spatial variation of the friction coefficient in contact mechanics analysis of laterally graded materials**
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- XXVI. **Weight function method for transient thermomechanical fracture analysis of a functionally graded hollow cylinder possessing a circumferential crack**
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- XXVII. **Analysis of frictional contacts with heat generation considering temperature dependent properties**
BALCI M. N., YILDIRIM B., DAĞ S.
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- XXVIII. **Consideration of spatial variation of the length scale parameter in static and dynamic analyses of functionally graded annular and circular micro-plates**
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- XXIX. **Static and free vibration analyses of small-scale functionally graded beams possessing a variable length scale parameter using different beam theories**
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EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, cilt.46, ss.1-11, 2014 (SCI-Expanded)
- XXX. **Production of graded porous polyamide structures and polyamide-epoxy composites via selective laser sintering**
Jande Y. A. C., ERDAL ERDOĞMUŞ M., DAĞ S.
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, cilt.33, sa.11, ss.1017-1036, 2014 (SCI-Expanded)
- XXXI. **Computational Methods for Inclined Cracks in Orthotropic Functionally Graded Materials Under Thermal Stresses**
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JOURNAL OF THERMAL STRESSES, cilt.36, sa.10, ss.1001-1026, 2013 (SCI-Expanded)
- XXXII. **Frictional Hertzian contact between a laterally graded elastic medium and a rigid circular stamp**
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- XXXIII. **Hygrothermal Fracture Analysis of Orthotropic Functionally Graded Materials Using J(k)-Integral-Based Methods**
TOPAL S., DAĞ S.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2013 (SCI-Expanded)
- XXXIV. **Three dimensional computational analysis of fatigue crack propagation in functionally graded materials**
Sabuncuoğlu B., DAĞ S., YILDIRIM B.
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- XXXV. **A surface crack in a graded coating subjected to sliding frictional contact**
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- XXXVI. **HYGROTHERMAL FRACTURE ANALYSIS OF ORTHOTROPIC MATERIALS USING J(k)-INTEGRAL**

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- XXXVIII. **Subsurface contact stresses in functionally graded coatings loaded by a frictional flat stamp**
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Journal of the Faculty of Engineering and Architecture of Gazi University, cilt.25, sa.3, ss.611-623, 2010 (SCI-Expanded)
- XXXIX. **Sliding frictional contact between a rigid punch and a laterally graded elastic medium**
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- XL. **Computation of Thermal Fracture Parameters for Inclined Cracks in Functionally Graded Materials Using J_k -Integral**
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- XLII. **Mixed-mode fracture analysis of orthotropic functionally graded materials under mechanical and thermal loads**
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- XLIII. **A surface crack in a graded coating bonded to a homogeneous substrate under general loading conditions**
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- XLV. **Thermal fracture analysis of orthotropic functionally graded materials using an equivalent domain integral approach**
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- XLVI. **Circumferential crack problem for an fgm cylinder under thermal stresses**
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- XLVII. **Crack problem for a functionally graded layer on an elastic foundation**
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Diğer Dergilerde Yayınlanan Makaleler

- Domain-boundary element method for forced vibrations of fiber-reinforced laminated beams**
Ahmed Z., Eshraghi I., DAĞ S.

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Fonksiyonel Derecelendirilmiş Multiferroik Kaplama ile Yarı-Dairesel Zimba Arasında Hareketli Temas Problemi**
Toktaş S. E., Dağ S.
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- II. **Rastgele Derecelendirilmiş Kaplama ile Yarı-Dairesel Zimba Arasındaki Hareketli Temas Problemi Üzerine**
Toktaş S. E., Dağ S.
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- III. **MIXED-MODE HYGROTHERMAL FRACTURE ANALYSIS OF ORTHOTROPIC FUNCTIONALLY GRADED MATERIALS USING J-INTEGRAL**
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- IV. **On the generation of a loading history with zero mean for structures subjected to multiaxial variable stresses**
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- V. **Manufacturing of Functionally Graded Porous Products by Selective Laser Sintering**
ERDAL ERDOĞMUŞ M., DAĞ S., Jande Y., Tekin C. M.
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- VI. **Three Dimensional Modeling of Inclined Surface Cracks in FGM Coatings**
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- VII. **Mechanical modeling of Thin Films Bonded to Functionally Graded Materials**
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- VIII. **Structural finite element analysis of stiffened and honeycomb panels of the RASAT satellite**
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- IX. **Mixed-mode stress intensity factors for an embedded crack in an orthotropic FGM coating**
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- X. **The frictional contact problem of sliding rigid parabolic stamps on graded materials**
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- XI. **Fatigue crack growth analysis models for functionally graded materials**
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XII. Three dimensional analysis of periodic cracking in FGM coatings under thermal stresses

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XIV. Contact mechanics of graded materials: Analyses using singular integral equations

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Desteklenen Projeler

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