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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, Makine Mühendisliği Bölümü, 2013 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2008 - 2013

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2002 - 2008

Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2002 - 2002

Mesleki Deneyim

Üniversite Yönetim Kurulu Üyesi, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2013 - Devam Ediyor

Yönetilen Tezler

DAĞ S., Dynamic frictional contact problems involving functionally graded materials, Doktora, M.NURULLAH(Öğrenci), 2018

DAĞ S., Forced vibration analysis of generally laminated composite beams using domain boundary element method, Yüksek Lisans, Z.AHMED(Öğrenci), 2018

DAĞ S., Oblique surface cracking and crack closure in an orthotropic medium under contact loading, Yüksek Lisans, S.ERCİHAN(Öğrenci), 2018

DAĞ S., CİĞEROĞLU E., New modeling and analysis methods for micro-plates, Doktora, RAGHAZADEH(Öğrenci), 2017

DAĞ S., Shape optimization of helicopter subfloor intersection element under crash loading, Yüksek Lisans, M.OKAN(Öğrenci), 2017

DAĞ S., Free vibration analysis of functionally graded rectangular nano-plates considering spatial variation of the nonlocal parameter, Yüksek Lisans, A.ALİPOUR(Öğrenci), 2017

DAĞ S., Contact mechanics of graded orthotropic coatings, Doktora, O.ARSLAN(Öğrenci), 2016

DAĞ S., Investigation of fatigue behaviour of external stores under fixed wing aircraft platforms during random vibration, Yüksek Lisans, E.OKUR(Öğrenci), 2015

- DAĞ S., A surface crack in an orthotropic medium subjected to sliding contact by a rigid stamp, Doktora, D.SARIKAYA(Öğrenci), 2014
- DAĞ S., Isıl ve higroskopik yüklemeye altındaki ortotropik fonksiyonel derecelendirilmiş malzemelerde hesaplamalı yöntemlerle kırılma analizi, Doktora, S.TOPAL(Öğrenci), 2013
- DAĞ S., Fatigue and fracture analysis of helicopter fuselage structures, Yüksek Lisans, R.ÖZCAN(Öğrenci), 2013
- ORAL S., DAĞ S., Design of a vehicle barrier, Yüksek Lisans, E.METİN(Öğrenci), 2013
- DAĞ S., CİĞEROĞLU E., Static and free vibration analyses of small-scale functionally graded beams possessing a variable length scale parameter using different beam theories, Yüksek Lisans, R.AGHAZADEH(Öğrenci), 2013
- DAĞ S., Hygrothermal fracture analysis of fibrous composites with variable fiber spacing using Jk-integral, Yüksek Lisans, F.SAEİDİ(Öğrenci), 2013
- DAĞ S., Malzeme özellikleri sıcaklığa bağımlı olan izotropik fonksiyonel derecelendirilmiş malzemelerde bulunan eğik çatlakların gerilme şiddet çarpanları Jk-integral yöntemi ile hesaplanması, Yüksek Lisans, M.YEGANEHPoor(Öğrenci), 2012
- DAĞ S., Three dimensional fracture analysis of orthotropic materials, Yüksek Lisans, G.AKGÜL(Öğrenci), 2012
- DAĞ S., Tek yönlü kompozit malzemelerin higrotermal kırılma analizi için Jk-integral metodu, Yüksek Lisans, O.ARSLAN(Öğrenci), 2011
- DAĞ S., YAZICIOĞLU Y., Vibration fatigue analysis of structures under broadband excitation, Yüksek Lisans, B.KOÇER(Öğrenci), 2010
- DAĞ S., YAMAN İ. Ö. , Finite element simulation of crack propagation for steel fiber reinforced concrete, Yüksek Lisans, K.ÖZENÇ(Öğrenci), 2009
- DAĞ S., Mechanical characterization and modelling of porous polymeric materials manufactured by selective laser sintering, Yüksek Lisans, C.MURAT(Öğrenci), 2009
- GÖKLER M. İ. , DAĞ S., Finite element analysis of a micro satellite structure under vibration induced loads during launch, Yüksek Lisans, S.ONTAÇ(Öğrenci), 2008
- DAĞ S., Jk-integral formulation and implementation for thermally loaded orthotropic functionally graded materials, Yüksek Lisans, E.ERHAN(Öğrenci), 2008
- DAĞ S., Storage reliability analysis of solid rocket propellants, Yüksek Lisans, M.SİNAN(Öğrenci), 2008
- DAĞ S., KADIOĞLU F. S. , Computational 3d fracture analysis in axisymmetric media, Yüksek Lisans, Ö.ÜNAL(Öğrenci), 2008
- DAĞ S., Stress and fracture analysis of riveted joints, Yüksek Lisans, G.KEÇELİOĞLU(Öğrenci), 2008
- DAĞ S., Three dimensional fracture analysis of fillet welds, Yüksek Lisans, F.FIÇICI(Öğrenci), 2007
- DAĞ S., A finite elements based approach for fracture analysis of welded joints in construction machinery, Yüksek Lisans, T.KARAGÖZ(Öğrenci), 2007
- DAĞ S., Mixed-mode fracture analysis of orthotropic FGM coatings under mechanical and thermal loads, Doktora, K.AYŞE(Öğrenci), 2007
- DAĞ S., Three dimensional mixed mode fracture analysis of functionally graded materials, Yüksek Lisans, S.KÖŞKER(Öğrenci), 2007
- DAĞ S., Thermal stress intensity factor evaluation for inclined cracks in functionally graded materials using Jk-integral method, Yüksek Lisans, B.DEMİRÇİVİ(Öğrenci), 2006
- DAĞ S., Fatigue crack growth analysis models for functionally graded materials, Yüksek Lisans, B.SABUNCUOĞLU(Öğrenci), 2006
- DAĞ S., KADIOĞLU F. S. , Buckling driven delamination of orthotropic functionally graded materials, Yüksek Lisans, S.YILMAZ(Öğrenci), 2006
- DAĞ S., Mixed-mode fracture analysis of orthotropic functionally graded materials, Yüksek Lisans, D.SARIKAYA(Öğrenci), 2005
- DAĞ S., Contact mechanics of graded materials with two-dimensional material property variations, Yüksek Lisans, K.GÖKAY(Öğrenci), 2005
- DAĞ S., Fonksiyonel derecelendirilmiş malzemelerden yapılmış termal bariyer kaplamalarındaki kenar çatlaklarının süreksiz rejimde sonlu elemanlar metodu ile incelenmesi, Yüksek Lisans, E.GÜLİN(Öğrenci), 2004
- DAĞ S., Three dimensional fracture analysis of FGM coatings, Yüksek Lisans, Ö.İNAN(Öğrenci), 2004
- DAĞ S., Automated design analysis of anti-roll bars, Yüksek Lisans, K.ÇALIŞKAN(Öğrenci), 2003

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **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, 2020 (SCI İndekslerine Giren Dergi)
- **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 İndekslerine Giren Dergi)
- **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, ss.2225-2240, 2019 (SCI İndekslerine Giren Dergi)
- **Solution of the dynamic frictional contact problem between a functionally graded coating and a moving cylindrical punch**
BALCI M. N. , DAĞ S.
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, cilt.161, ss.267-281, 2019 (SCI İndekslerine Giren Dergi)
- **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.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, cilt.24, ss.3549-3572, 2018 (SCI İndekslerine Giren Dergi)
- **Dynamic frictional contact problems involving elastic coatings**
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TRIBOLOGY INTERNATIONAL, cilt.124, ss.70-92, 2018 (SCI İndekslerine Giren Dergi)
- **Hyperbolic heat conduction based weight function method for thermal fracture of functionally graded hollow cylinders**
Eshraghi I., Soltani N., DAĞ S.
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- **Domain-boundary element method for elastodynamics of functionally graded Timoshenko beams**
Eshraghi I., DAĞ S.
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- **Contact mechanics problem between an orthotropic graded coating and a rigid punch of an arbitrary profile**
ARSLAN O., DAĞ S.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, cilt.135, ss.541-554, 2018 (SCI İndekslerine Giren Dergi)
- **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 İndekslerine Giren Dergi)
- **Subsurface stresses in graded coatings subjected to frictional contact with heat generation**

BALCI M. N. , DAĞ S., YILDIRIM B.

JOURNAL OF THERMAL STRESSES, cilt.40, ss.517-534, 2017 (SCI İndekslerine Giren Dergi)

● **Surface cracking in an orthotropic medium subjected to frictional contact**

Sarikaya D., DAĞ S.

● INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, cilt.90, ss.1-11, 2016 (SCI İndekslerine Giren Dergi)

● **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 İndekslerine Giren Dergi)

● **Consideration of spatial variation of the friction coefficient in contact mechanics analysis of laterally graded materials**

DAĞ S.

ZAMM-ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK, cilt.96, ss.121-136, 2016 (SCI

● İndekslerine Giren Dergi)

● **Weight function method for transient thermomechanical fracture analysis of a functionally graded hollow cylinder possessing a circumferential crack**

Eshraghi I., Soltani N., DAĞ S.

● JOURNAL OF THERMAL STRESSES, cilt.39, ss.1182-1199, 2016 (SCI İndekslerine Giren Dergi)

● **Analysis of frictional contacts with heat generation considering temperature dependent properties**

BALCI M. N. , YILDIRIM B., DAĞ S.

● INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, cilt.101, ss.59-69, 2015 (SCI İndekslerine Giren Dergi)

● **Consideration of spatial variation of the length scale parameter in static and dynamic analyses of functionally graded annular and circular micro-plates**

Eshraghi I., DAĞ S., Soltani N.

● COMPOSITES PART B-ENGINEERING, cilt.78, ss.338-348, 2015 (SCI İndekslerine Giren Dergi)

● **Static and free vibration analyses of small-scale functionally graded beams possessing a variable length scale parameter using different beam theories**

Aghazadeh R., Ciğeroğlu E., Dağ S.

● EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, cilt.46, ss.1-11, 2014 (SCI İndekslerine Giren Dergi)

● **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, ss.1017-1036, 2014 (SCI İndekslerine Giren Dergi)

● **Computational Methods for Inclined Cracks in Orthotropic Functionally Graded Materials Under Thermal Stresses**

DAĞ S., YILDIRIM B., TOPAL S.

● JOURNAL OF THERMAL STRESSES, cilt.36, ss.1001-1026, 2013 (SCI İndekslerine Giren Dergi)

● **Frictional Hertzian contact between a laterally graded elastic medium and a rigid circular stamp**

DAĞ S., GÜLER M. A. , YILDIRIM B., Ozatag A. C.

● ACTA MECHANICA, cilt.224, ss.1773-1789, 2013 (SCI İndekslerine Giren Dergi)

● **Hygrothermal Fracture Analysis of Orthotropic Functionally Graded Materials Using $J(k)$ -Integral-Based Methods**

TOPAL S., DAĞ S.

● MATHEMATICAL PROBLEMS IN ENGINEERING, 2013 (SCI İndekslerine Giren Dergi)

● **Three dimensional computational analysis of fatigue crack propagation in functionally graded materials**

Sabuncuoglu B., DAĞ S., YILDIRIM B.

● COMPUTATIONAL MATERIALS SCIENCE, cilt.52, ss.246-252, 2012 (SCI İndekslerine Giren Dergi)

● **HYGROTHERMAL FRACTURE ANALYSIS OF ORTHOTROPIC MATERIALS USING $J(k)$ -INTEGRAL**

DAĞ S., YILDIRIM B., Arslan O., Arman E. E.

JOURNAL OF THERMAL STRESSES, cilt.35, ss.596-613, 2012 (SCI İndekslerine Giren Dergi)

- **A surface crack in a graded coating subjected to sliding frictional contact**
DAĞ S., APATAY T., GÜLER M. A. , Gulgec M.
ENGINEERING FRACTURE MECHANICS, cilt.80, ss.72-91, 2012 (SCI İndekslerine Giren Dergi)
- **Computation of thermal fracture parameters for orthotropic functionally graded materials using $J(k)$ -integral**
DAĞ S., Arman E. E. , YILDIRIM B.
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, cilt.47, ss.3480-3488, 2010 (SCI İndekslerine Giren Dergi)
- **Sliding frictional contact between a rigid punch and a laterally graded elastic medium**
DAĞ S., GÜLER M. A. , Yidirim B., Ozatag A. C.
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, cilt.46, ss.4038-4053, 2009 (SCI İndekslerine Giren Dergi)
- **Computation of Thermal Fracture Parameters for Inclined Cracks in Functionally Graded Materials Using J_k -Integral**
DAĞ S., YILDIRIM B.
JOURNAL OF THERMAL STRESSES, cilt.32, ss.530-556, 2009 (SCI İndekslerine Giren Dergi)
- **Mixed-mode fracture analysis of orthotropic functionally graded material coatings using analytical and computational methods**
DAĞ S., Ilhan K. A.
JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME, cilt.75, 2008 (SCI İndekslerine Giren Dergi)
- **Mixed-mode fracture analysis of orthotropic functionally graded materials under mechanical and thermal loads**
Dag S., Yildirim B., Sarikaya D.
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, cilt.44, ss.7816-7840, 2007 (SCI İndekslerine Giren Dergi)
- **A surface crack in a graded coating bonded to a homogeneous substrate under general loading conditions**
El-Borgi S., Abdelmoula R., DAĞ S., Lajnef N.
JOURNAL OF MECHANICS OF MATERIALS AND STRUCTURES, cilt.2, ss.1331-1353, 2007 (SCI İndekslerine Giren Dergi)
- **Mixed-mode fracture analysis of functionally graded materials under thermal stresses: A new approach using $J(k)$ -integral**
Dag S.
JOURNAL OF THERMAL STRESSES, cilt.30, ss.269-296, 2007 (SCI İndekslerine Giren Dergi)
- **Thermal fracture analysis of orthotropic functionally graded materials using an equivalent domain integral approach**
Dag S.
ENGINEERING FRACTURE MECHANICS, cilt.73, ss.2802-2828, 2006 (SCI İndekslerine Giren Dergi)
- **Circumferential crack problem for an fgm cylinder under thermal stresses**
DAĞ S., Kadioğlu S., Yahşi O. S.
Journal of Thermal Stresses, cilt.22, ss.659-687, 1999 (SCI İndekslerine Giren Dergi)
- **Crack problem for a functionally graded layer on an elastic foundation**
Kadioğlu S., DAĞ S., Yahşi S.
International Journal of Fracture, cilt.94, ss.63-77, 1998 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- **Domain-boundary element method for forced vibrations of fiber-reinforced laminated beams**
Ahmed Z., Eshraghi I., DAĞ S.
INTERNATIONAL JOURNAL FOR COMPUTATIONAL METHODS IN ENGINEERING SCIENCE & MECHANICS, cilt.21,

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **MIXED-MODE HYGROTHERMAL FRACTURE ANALYSIS OF ORTHOTROPIC FUNCTIONALLY GRADED MATERIALS USING J-INTEGRAL**
TOPAL S., DAĞ S.
12th ASME Biennial Conference on Engineering Systems Design and Analysis (ESDA2014), Copenhagen, Danimarka, 25 - 27 Haziran 2014
- **Three Dimensional Modeling of Inclined Surface Cracks in FGM Coatings**
Kosker S., DAĞ S., YILDIRIM B.
10th International Symposium on Multiscale, Multifunctional and Functionally Graded Materials, Sendai, Japonya, 22 - 25 Eylül 2008, ss.109-110
- **Mechanical modeling of Thin Films Bonded to Functionally Graded Materials**
GÜLER M. A. , Gulver Y. F. , DAĞ S.
10th International Symposium on Multiscale, Multifunctional and Functionally Graded Materials, Sendai, Japonya, 22 - 25 Eylül 2008, ss.333-334
- **Manufacturing of Functionally Graded Porous Products by Selective Laser Sintering**
ERDAL ERDOĞMUŞ M., DAĞ S., Jande Y., Tekin C. M.
10th International Symposium on Multiscale, Multifunctional and Functionally Graded Materials, Sendai, Japonya, 22 - 25 Eylül 2008, ss.253-258
- **Structural finite element analysis of stiffened and honeycomb panels of the RASAT satellite**
Ontac S., DAĞ S., Goekler M. I.
3rd International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 14 - 16 Haziran 2007, ss.171-172
- **Modeling of thin films and cover plates bonded to graded substrates**
GÜLER M. A. , Erdogan F., DAĞ S.
9th International Conference on Multiscale and Functionally Graded Materials, Hawaii, Amerika Birleşik Devletleri, 15 - 18 Ekim 2006, cilt.973, ss.790-791
- **Mixed-mode stress intensity factors for an embedded crack in an orthotropic FGM coating**
DAĞ S., İlhan K. A. , Erdogan F.
9th International Conference on Multiscale and Functionally Graded Materials, Hawaii, Amerika Birleşik Devletleri, 15 - 18 Ekim 2006, cilt.973, ss.16-17
- **Contact mechanics of graded materials: Analyses using singular integral equations**
Dag S.
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- **Fatigue crack growth analysis models for functionally graded materials**
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9th International Conference on Multiscale and Functionally Graded Materials, Hawaii, Amerika Birleşik Devletleri, 15 - 18 Ekim 2006, cilt.973, ss.423-424
- **Three dimensional analysis of periodic cracking in FGM coatings under thermal stresses**
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- **The frictional contact problem of sliding rigid parabolic stamps on graded materials**
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Atıflar

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