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Personal Information

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Education Information

Doctorate, Lehigh University, Makina Mühendisliği, United States Of America 1989 - 1993

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği (Dr), Turkey 1986 - 1989

Undergraduate, Middle East Technical University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey 1983 - 1986

Foreign Languages

English, C1 Advanced

Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Fracture Mechanics, Engineering and Technology

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2001 - 2003

Advising Theses

KADIOĞLU F. S. , Nonlinear behaviour and stress concentrations in natural fiber composites under transverse loading, Postgraduate, O.ÇAKMAKÇI(Student), 2019

KADIOĞLU F. S. , Thermal stress problems in FGMS, Postgraduate, E.Nur(Student), 2019

KADIOĞLU F. S. , Stress redistribution around fiber breaks in unidirectional steel fiber composites under longitudinal tensile loading, Postgraduate, Ç.Mutlu(Student), 2019

KADIOĞLU F. S. , Fatigue pre-cracking life estimation for fracture toughness test specimens, Postgraduate, A.ALIPOUR(Student), 2018

KADIOĞLU F. S. , Formulation of a beam finite element for micro beams, Postgraduate, Y.PEHLİVANOĞLU(Student), 2018

KADIOĞLU F. S. , Dynamic analysis of beams with breathing crack using finite element method, Postgraduate, B.Özkan(Student), 2017

KADIOĞLU F. S. , Dynamic analysis of beam with breathing crack using finite element method, Postgraduate, B.ÖZKAN(Student), 2017

KADIOĞLU F. S. , Theoretical and experimental analyses of compliant universal joint, Postgraduate, Ç.MERVE(Student),

2014

KADIOĞLU F. S. , Fracture analysis of welded connections, Postgraduate, A.YETGİN(Student), 2013

KADIOĞLU F. S. , Thermal stress problem for an fgm strip containing periodic cracks, Postgraduate, A.KÖSE(Student), 2013

KADIOĞLU F. S. , Periodic crack problem for an FGM coated half plane, Postgraduate, İ.İNCE(Student), 2012

KADIOĞLU F. S. , Vibration analysis of cracked beams on elastic foundation using Timoshenko beam theory, Postgraduate, A.ÇAĞRI(Student), 2011

KADIOĞLU F. S. , Shock failure analysis of military equipments by using strain energy density, Postgraduate, Ü.MERCİMEK(Student), 2010

Kadioğlu F. S. , Yazıcıoğlu Y., Design and Analysis of a Multi-Axis Thrust Measurement Systems, Postgraduate, A.AYDOĞMUŞ(Student), 2009

KADIOĞLU F. S. , Design and analysis of a linear shape memory alloy actuator, Doctorate, B.SÖYLEMEZ(Student), 2009

KADIOĞLU F. S. , DAĞ S., Computational 3d fracture analysis in axisymmetric media, Postgraduate, Ö.ÜNAL(Student), 2008

KADIOĞLU F. S. , Residual stress analysis of riveting process using finite element method, Postgraduate, M.MURAT(Student), 2007

KADIOĞLU F. S. , Analytical solution of a crack problem in a radially graded FGM, Postgraduate, S.ÇETİN(Student), 2007

KADIOĞLU F. S. , Vibration induced stress and accelerated life analyses of an aerospace structure, Postgraduate, S.ÖZSOY(Student), 2006

KADIOĞLU F. S. , DAĞ S., Buckling driven delamination of orthotropic functionally graded materials, Postgraduate, S.YILMAZ(Student), 2006

KADIOĞLU F. S. , Vibration fatigue analysis of equipments used in aerospace, Postgraduate, M.AYKAN(Student), 2005

KADIOĞLU F. S. , Analytical solution of a ring shaped crack problems in a hollow cylinder imbedded in a dissimilar medium, Postgraduate, Ö.MADEN(Student), 2002

KADIOĞLU F. S. , A Computational elastic fracture analysis of cylindrical and conical structures, Postgraduate, G.ATALAY(Student), 2002

KADIOĞLU F. S. , Development of a computer program for the analysis of fatigue crack growth, Postgraduate, A.MURTAZA(Student), 2002

KADIOĞLU F. S. , Transversely isotropic layer bonded to a rigid substrate, Postgraduate, M.AYKUT(Student), 2000

KADIOĞLU F. S. , Axisymmetrical crack problem for a fiber imbedded in a matrix, Postgraduate, E.SABRİ(Student), 1999

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

- I. **Fiber/matrix interface stress analysis of flax-fiber composites under transverse loading considering material nonlinearity**
SABUNCUOĞLU B., Cakmakci O., KADIOĞLU F. S.
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.39, pp.345-360, 2020 (Journal Indexed in SCI)
- II. **Stress redistribution around fiber breaks in unidirectional steel fiber composites considering the nonlinear material behavior**
SABUNCUOĞLU B., MUTLU Ç., KADIOĞLU F. S. , Swolfs Y.
COMPOSITE STRUCTURES, vol.239, 2020 (Journal Indexed in SCI)
- III. **Vibration Analysis of a Cracked Beam on an Elastic Foundation**
Batihan A. C. , KADIOĞLU F. S.
INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, vol.16, no.5, 2016 (Journal Indexed in SCI)
- IV. **Steel compliant Cardan universal joint**
Tanik C. M. , PARLAKTAŞ V., TANIK E., Kadioğlu S.
MECHANISM AND MACHINE THEORY, vol.92, pp.171-183, 2015 (Journal Indexed in SCI)
- V. **Shock failure analysis of metallic structures by using strain energy density method**
Çelik M., Mercimek Ü., Kadioğlu S.

- Journal of Strain Analysis for Engineering Design, vol.49, no.7, pp.501-509, 2014 (Journal Indexed in SCI)
- VI. **Periodic crack problem for a functionally graded half-plane an analytic solution**
YILDIRIM B., Kutlu O., KADIOĞLU F. S.
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, vol.48, no.21, pp.3020-3031, 2011 (Journal Indexed in SCI)
- VII. **Precise position control using shape memory alloy wires**
Donmez B., Ozkan B., KADIOĞLU F. S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.18, no.5, pp.899-912, 2010 (Journal Indexed in SCI)
- VIII. **An accelerated life test approach for aerospace structural components**
Özsoy S., Çelik M., KADIOĞLU F. S.
Engineering Failure Analysis, vol.15, no.7, pp.946-957, 2008 (Journal Indexed in SCI)
- IX. **Delamination of compressively stressed orthotropic functionally graded material coatings under thermal loading**
YILDIRIM B., Yilmaz S., Kadioğlu S.
Journal of Applied Mechanics, Transactions ASME, vol.75, no.5, pp.511061-5110610, 2008 (Journal Indexed in SCI)
- X. **Circumferentially cracked hollow cylinder under thermal shock - Revisited**
KADIOĞLU F. S.
JOURNAL OF THERMAL STRESSES, vol.31, no.11, pp.1056-1078, 2008 (Journal Indexed in SCI)
- XI. **Circumferentially cracked bimaterial hollow cylinder under mechanical and transient thermal loading**
KADIOĞLU F. S.
Journal of Thermal Stresses, vol.29, no.12, pp.1073-1106, 2006 (Journal Indexed in SCI)
- XII. **Edge cracks in a transversely isotropic hollow cylinder**
KADIOĞLU F. S.
Engineering Fracture Mechanics, vol.72, no.14, pp.2159-2173, 2005 (Journal Indexed in SCI)
- XIII. **Axisymmetric crack problem for a hollow cylinder imbedded in a dissimilar medium**
KADIOĞLU F. S.
International Journal of Engineering Science, vol.43, pp.617-638, 2005 (Journal Indexed in SCI)
- XIV. **Axisymmetric crack terminating at the interface of transversely isotropic dissimilar media**
KADIOĞLU F. S.
International Journal of Fracture, vol.116, no.1, pp.51-79, 2002 (Journal Indexed in SCI)
- XV. **Circumferential crack problem for an fgm cylinder under thermal stresses**
DAĞ S., Kadioğlu S., Yahşi O. S.
Journal of Thermal Stresses, vol.22, no.7, pp.659-687, 1999 (Journal Indexed in SCI)
- XVI. **Crack problem for a functionally graded layer on an elastic foundation**
Kadioğlu S., DAĞ S., Yahşi S.
International Journal of Fracture, vol.94, no.1, pp.63-77, 1998 (Journal Indexed in SCI)
- XVII. **Indentation of a cantilever beam or plate**
Kadioğlu S., Yahşi O.
International Journal of Fracture, vol.74, no.2, pp.99-130, 1995 (Journal Indexed in SCI)
- XVIII. **The free-end interface crack problem for bonded orthotropic layers**
Kadioglu S., Erdogan F.
International Journal of Engineering Science, vol.33, no.8, pp.1105-1120, 1995 (Journal Indexed in SCI)
- XIX. **T-shaped crack problem for bonded orthotropic layers**
Erdogan F., Kadioglu S.
International Journal of Fracture, vol.67, no.4, pp.273-300, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Fatigue Precracking Time Estimates for Three-Point Bending Specimens

Ghasabi A. A. , Motameni A., Kadiođlu F. S.

JOURNAL OF FAILURE ANALYSIS AND PREVENTION, vol.19, no.5, pp.1275-1285, 2019 (Journal Indexed in ESCI)

II. Critical crack size investigation method for a land launcher

Yetgin A., Acar B., Kadiođlu S.

Advances in Military Technology, vol.13, no.1, pp.119-131, 2018 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

I. Non-linear Dynamic Analysis for the Lateral Vibration of Beams with Breathing Crack under Harmonic Excitation Using Finite Element Method

Özkan B., Cigerođlu E., Özgcn G. O. , Kadiođlu F. S.

ICAF 2017 (35th Conference and 29th Symposium of the International Committee on Aeronautical Fatigue and Structural Integrity), Nagoya, Japan, 7 - 09 June 2017

II. Analytical Solution of a Crack Problem in a Radially Graded FGM

Cetin S., KADIOĐLU F. S.

10th International Symposium on Multiscale, Multifunctional and Functionally Graded Materials, Sendai, Japan, 22 - 25 September 2008, pp.115-120

III. Ring shaped crack problem for a hollow cylinder imbedded in a dissimilar medium

KADIOĐLU F. S. , Maden Ö.

11th International Conference on Fracture 2005, ICF11, Turin, Italy, 20 - 25 March 2005, vol.1, pp.327-332

Supported Projects

KADIOĐLU F. S. , TANABI H., Project Supported by Higher Education Institutions, Kompozit Malzemelerde Mikrovasküler Kanallar Yardımıyla Elektrik İletkenliđi Oluřturulması, 2015 - 2019

Citations

Total Citations (WOS):165

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