

# Prof. FEVZİ SUAT KADIOĞLU

## Personal Information

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## Education Information

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

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Makine Mühendisliği (Dr), Turkey 1986 - 1989

Under Graduate, 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 Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 2007 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1997 - 2001

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1996 - 1997

Research Assistant, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1987 - 1989

## Professional Experience

Deputy Head of Department, 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, Post Graduate, O.ÇAKMAKÇI(Student), 2019

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

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

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

KADIOĞLU F. S. , Theoretical and experimental analyses of compliant universal joint, Post Graduate, Ç.MERVE(Student), 2014

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

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

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

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

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

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

KADIOĞLU F. S. , YAZICIOĞLU Y., Design and Analysis of a Multi-Axis Thrust Measurement Systems, Post Graduate, A.AYDOĞMUŞ(Student), 2009

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

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

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

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

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

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

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

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

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

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

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

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

- **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)
- **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)
- **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, 2016 (Journal Indexed in SCI)
- **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)
- **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, pp.501-509, 2014 (Journal Indexed in SCI)  
**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, pp.3020-3031, 2011 (Journal Indexed in SCI)  
**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, pp.899-912, 2010 (Journal Indexed in SCI)  
**An accelerated life test approach for aerospace structural components**  
Özsoy S., Çelik M., KADIOĞLU F. S.
- Engineering Failure Analysis, vol.15, pp.946-957, 2008 (Journal Indexed in SCI)  
**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, pp.511061-5110610, 2008 (Journal Indexed in SCI)  
**Circumferentially cracked hollow cylinder under thermal shock - Revisited**  
KADIOĞLU F. S.
- JOURNAL OF THERMAL STRESSES, vol.31, pp.1056-1078, 2008 (Journal Indexed in SCI)  
**Circumferentially cracked bimaterial hollow cylinder under mechanical and transient thermal loading**  
KADIOĞLU F. S.
- Journal of Thermal Stresses, vol.29, pp.1073-1106, 2006 (Journal Indexed in SCI)  
**Edge cracks in a transversely isotropic hollow cylinder**  
KADIOĞLU F. S.
- Engineering Fracture Mechanics, vol.72, pp.2159-2173, 2005 (Journal Indexed in SCI)  
**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)  
**Axisymmetric crack terminating at the interface of transversely isotropic dissimilar media**  
KADIOĞLU F. S.
- International Journal of Fracture, vol.116, pp.51-79, 2002 (Journal Indexed in SCI)  
**Circumferential crack problem for an fgm cylinder under thermal stresses**  
DAĞ S., Kadioğlu S., Yahşi O. S.
- Journal of Thermal Stresses, vol.22, pp.659-687, 1999 (Journal Indexed in SCI)  
**Crack problem for a functionally graded layer on an elastic foundation**  
Kadioğlu S., DAĞ S., Yahşi S.
- International Journal of Fracture, vol.94, pp.63-77, 1998 (Journal Indexed in SCI)  
**Indentation of a cantilever beam or plate**  
Kadioğlu S., Yahşi O.
- International Journal of Fracture, vol.74, pp.99-130, 1995 (Journal Indexed in SCI)  
**The free-end interface crack problem for bonded orthotropic layers**  
Kadioglu S., Erdogan F.
- International Journal of Engineering Science, vol.33, pp.1105-1120, 1995 (Journal Indexed in SCI)  
**T-shaped crack problem for bonded orthotropic layers**  
Erdogan F., Kadioglu S.
- International Journal of Fracture, vol.67, pp.273-300, 1994 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **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, pp.1275-1285, 2019 (Journal Indexed in ESCI)

● **Critical crack size investigation method for a land launcher**

Yetgin A., Acar B., Kadiođlu S.

Advances in Military Technology, vol.13, pp.119-131, 2018 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

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

Özkan B., Ciđerođlu E., Özgen 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

● **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

## 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):149

h-index (WOS):7