

AKIF KUTLU

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Learning Knowledge

Doctorate 2007 - 2013	İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (Dr), Turkey
Postgraduate 2005 - 2007	İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (YI) (Tezli), Turkey
Undergraduate 2000 - 2005	İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey

Foreign Languages

English, C1 Advanced

German, A1 Beginner

Dissertations

Doctorate, Large deflection and elasto-plastic analysis of Mindlin plates with mixed FEM, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (Dr), 2013

Postgraduate, Keyfi doğrultuda ortotrop pasternak zeminine oturan mindlin plaklarının serbest titreşimlerinin karışık sonlu elemanlarla analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (YI) (Tezli), 2007

Academic Titles / Tasks

Assistant Professor 2018 - Continues	Istanbul Technical University, İnşaat, İnşaat Mühendisliği
Assistant Professor 2014 - 2018	Istanbul Technical University, İnşaat, İnşaat Mühendisliği
Research Assistant 2005 - 2013	Istanbul Technical University, İnşaat, İnşaat Mühendisliği

Supported Projects

Supported Projects

1. Bulut O., Kutlu A., Ataoğlu Ş., Baytak T., Çevikbilen G., Project Supported by Higher Education Institutions, Toprak-yapı etkileşiminin araştırılması için yeni bir deney düzeneği ve yönteminin geliştirilmesi, 2019 - Continues
2. Kutlu A., Bab Y., Project Supported by Higher Education Institutions, YÜKSEK MERTEBE KAYMA DEFORMASYON TEORİSİNE DAYANAN TABAKALI KOMPOZİT KİRİŞ VE PLAKLAR İÇİN KARIŞIK SONLU ELEMAN FORMÜLASYONLARI, 2020 - 2021
3. Kutlu A., Project Supported by Higher Education Institutions, Nispeten Kalın, Kompozit, Dairesel Çubukların Karışık Sonlu Elemanlar Yöntemiyle Statik Analizi, 2016 - 2018

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

1. **A novel mixed finite element formulation based on the refined zigzag theory for the stress analysis of laminated composite plates**
Kutlu A., DÖRDÜNCÜ M., Rabczuk T.
COMPOSITE STRUCTURES, vol.267, 2021 (Journal Indexed in SCI)
2. **Mixed finite element formulation for bending of laminated beams using the refined zigzag theory**
Kutlu A.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART L-JOURNAL OF MATERIALS-DESIGN AND APPLICATIONS, vol.235, no.7, pp.1712-1722, 2021 (Journal Indexed in SCI)
3. **An Exact Elasticity Solution for Monoclinic Functionally Graded Beams**
ÇÖMEZ İ., Aribas U. N., Kutlu A., Omurtag M. H.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 2021 (Journal Indexed in SCI)
4. **Forced vibration analysis of composite-geometrically exact elliptical cone helices via mixed FEM**
Aribas U. N., Ermis M., Kutlu A., Erathl N., Omurtag M. H.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, 2020 (Journal Indexed in SCI)
5. **A combined boundary-finite element procedure for dynamic analysis of plates with fluid and foundation interaction considering free surface effect**
Kutlu A., Uğurlu B., Omurtag M. H.
OCEAN ENGINEERING, vol.145, pp.34-43, 2017 (Journal Indexed in SCI)
6. **Parametric analysis of viscoelastic hyperboloidal helical rod**
Ermis M., Erathl N., Argeso H., Kutlu A., Omurtag M. H.
ADVANCES IN STRUCTURAL ENGINEERING, vol.19, no.9, pp.1420-1434, 2016 (Journal Indexed in SCI)
7. **A new mixed finite-element approach for the elastoplastic analysis of Mindlin plates**
Kutlu A., MESCHKE G., Omurtag M. H.
JOURNAL OF ENGINEERING MATHEMATICS, vol.99, no.1, pp.137-155, 2016 (Journal Indexed in SCI)
8. **Large deflection bending analysis of elliptic plates on orthotropic elastic foundation with mixed finite element method**
Kutlu A., Omurtag M. H.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.65, no.1, pp.64-74, 2012 (Journal Indexed in SCI)
9. **Dynamic response of Mindlin plates resting on arbitrarily orthotropic Pasternak foundation and partially in contact with fluid**
Kutlu A., Uğurlu B., Omurtag M. H., Ergin A.
OCEAN ENGINEERING, vol.42, pp.112-125, 2012 (Journal Indexed in SCI)
10. **Dynamics of a rectangular plate resting on an elastic foundation and partially in contact with a quiescent fluid**
Uğurlu B., Kutlu A., Ergin A., Omurtag M. H.
JOURNAL OF SOUND AND VIBRATION, vol.317, pp.308-328, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

1. **BUCKLING OF RECTANGULAR FSDT PLATES RESTING ON ORTHOTROPIC FOUNDATION BY MIXED FEM**
Kutlu A., Omurtag M. H.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.2, pp.659-666, 2020 (Journal Indexed in ESCI)
2. **Elastically Damped Transient Response of Axially FG Straight Beams**
ARIBAŞ Ü. N. , ERMİŞ M., KUTLU A., ERATLI N., OMURTAG M. H.
International Journal of Theoretical and Applied Mechanics, vol.4, pp.19-25, 2019 (Refereed Journals of Other Institutions)
3. **Dynamic Response of Sandwich Bottom Plate of Rigid Fluid Container Resting on Elastic Foundation**
Kutlu A.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.1, pp.131-143, 2019 (Journal Indexed in ESCI)
4. **THE DYNAMIC ANALYSIS OF A LINEAR VISCOELASTIC PLANAR ELLIPTICAL BEAM**
Ermış M., Kutlu A., Eratlı N., Omurtag M. H.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.9, no.2, pp.157-168, 2018 (Journal Indexed in ESCI)
5. **Forced Vibration Analysis of Warping Considered Curved Composite Beams Resting on Viscoelastic Foundation**
ARIBAŞ Ü. N. , ERMİŞ M., KUTLU A., ERATLI N., OMURTAG M. H.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.4, pp.1093-1105, 2018 (Journal Indexed in ESCI)
6. **Dynamic behavior of the viscoelastic noncylindrical helices with a mixed finite element method**
Eratlı N., Kutlu A.
Int. J. of Structural Analysis and Design-IJSAD, vol.2, no.1, pp.110-113, 2015 (Refereed Journals of Other Institutions)
7. **Tabakalı kompozit Mindlin plağının karışık sonlu eleman yöntemi ile geometrik doğrusal olmayan analizi**
Kutlu A., Omurtag M. H.
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.31, pp.298-306, 2013 (National Refreed University Journal)

Citations

Total Citations (WOS):140

h-index (WOS):5

Research Areas

Mechanics of Solid Bodies, Civil Engineering, Mechanical, Engineering and Technology