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Publons / Web Of Science ResearcherID: ABE-6914-2020

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Eğitim Bilgileri

Doktora, Bursa Uludağ Üniversitesi, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, Türkiye 2019 - 2023

Yüksek Lisans, Bursa Uludağ Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, İnşaat Mühendisliği, Türkiye 2018 - 2019

Yüksek Lisans, Akdeniz Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Türkiye 2016 - 2018

Lisans, Anadolu Üniversitesi, İşletme Fakültesi, İşletme Bölümü, Türkiye 2013 - 2016

Lisans, Akdeniz Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 2012 - 2016

Araştırma Alanları

İnşaat Mühendisliği

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Bursa Uludağ Üniversitesi, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2024 - Devam Ediyor

Araştırma Görevlisi, Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, 2018 - 2024

Verdiği Dersler

Dinamik, Lisans, 2023 - 2024

Deprem Mühendisliğinde İleri Matris Metotlar, Yüksek Lisans, 2023 - 2024

Yapı Mekaniğinde Bilgisayar Uygulamaları, Lisans, 2023 - 2024

Jüri Üyelikleri

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Kütahya Dumlupınar Üniversitesi, Temmuz, 2024

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **An investigation on the torsional vibration of a FG strain gradient nanotube**
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- II. **Elastic medium and torsional spring effects on the nonlocal dynamic of functionally graded porous nanotubes**
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- IV. **Free Vibration of a Carbon Nanotube-Reinforced Nanowire/Nanobeam with Movable Ends**
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- V. **Porosity and Deformable Boundary Effects on the Dynamic of Nonlocal Sigmoid and Power-Law FG Nanobeams Embedded in the Winkler-Pasternak Medium**
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- VIII. **Rotary inertia effect on dynamic analysis of embedded FG porous nanobeams under deformable boundary conditions with the effect of neutral axis**
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- IX. **Winkler-Pasternak foundation effect on the buckling loads of arbitrarily rigid or restrained supported nonlocal beams made of different FGM and porosity distributions**
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- X. **Vibration of embedded restrained composite tube shafts with nonlocal and strain gradient effects**
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- XI. **Nonlinear stability analysis of embedded restrained nanobeams using the Stokes' transformation**
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- XII. **Vibration analysis of embedded porous nanobeams under thermal effects using boosting machine learning algorithms and semi-analytical approach**
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- XIII. **Torsional vibration behavior of a restrained non-circular nanowire in an elastic matrix**
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- XIV. **Size-dependent Levinson beam theory for thermal vibration of a nanobeam with deformable boundary conditions**
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- XV. **Assessment of machine learning methods predicting the axial vibration frequencies of microbars**
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- XVI. **Size-dependent nonlinear stability response of perforated nano/microbeams via Fourier series**
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- XVIII. **Stability analysis of arbitrary restrained nanobeam embedded in an elastic medium via nonlocal strain gradient theory**
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- XIX. **Buckling analysis of perforated nano/microbeams with deformable boundary conditions via nonlocal strain gradient elasticity**
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- XXI. **On nonlinear stability analysis of saturated embedded porous nanobeams**
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- XXII. **An eigenvalue solution for nonlocal vibration of guide supported perfect/imperfect functionally graded power-law and sigmoid nanobeams on one-parameter elastic foundation**
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- XXIV. **Torsional static and vibration analysis of a non-circular restrained micro/nanowire**
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- XXV. **A Hardening Nonlocal Elasticity Approach to Axial Vibration Analysis of an Arbitrarily Supported FG Nanorod**
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- XXVIII. **Size-Dependent Vibration of Porous Bishop Nanorod with Arbitrary Boundary Conditions and Nonlocal Elasticity Effects**
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- XXIX. **Critical buckling loads of embedded perforated microbeams with arbitrary boundary conditions via**

an efficient solution method

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- XXXII. **Vibration of FG nano-sized beams embedded in Winkler elastic foundation and with various boundary conditions**
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- XXXIII. **Axial and torsional free vibrations of restrained single-walled boron nitride nanotube (SWBNNT) embedded in an elastic medium via nonlocal strain gradient theory**
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- XXXIV. **Nonlocal strain gradient approach for axial vibration analysis of arbitrary restrained nanorod**
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- XXXV. **Nonlocal Free Vibration of Embedded Short-Fiber-Reinforced Nano-/Micro-Rods with Deformable Boundary Conditions**
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- XXXVI. **Size dependent torsional vibration of a restrained single walled carbon nanotube (SWCNT) via nonlocal strain gradient approach**
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- XXXVII. **Porosity dependent torsional vibrations of restrained FG nanotubes using modified couple stress theory**
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- XXXVIII. **Torsional and longitudinal vibration analysis of a porous nanorod with arbitrary boundaries**
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- XXXIX. **A Fourier sine series solution of static and dynamic response of nano/micro-scaled FG rod under torsional effect**
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- XL. **An effective analytical method for buckling solutions of a restrained FGM nonlocal beam**
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- XLI. **An eigenvalue solution for torsional vibrations of restrained porous nanorods using doublet mechanics theory**
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- XLII. **Finite element formulation for nano-scaled beam elements**

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- XLIII. **Buckling analysis of restrained nanobeams using strain gradient elasticity**
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- XLV. **Torsional vibrations of functionally graded restrained nanotubes**
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- XLVI. **Buckling analysis of nanobeams with deformable boundaries via doublet mechanics**
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- XLVII. **Size-Dependent Free Vibration of Silicon Nanobeams with Different Boundary Conditions and Beam Theories**
UZUN B., YAYLI M. Ö.
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- XLVIII. **Free vibration analysis of nanotube based sensors including rotary inertia based on the Rayleigh beam and modified couple stress theories**
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- XLIX. **Longitudinal vibration analysis of FG nanorod restrained with axial springs using doublet mechanics**
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- L. **Axial dynamic analysis of a Bishop nanorod with arbitrary boundary conditions**
Uzun B., Kafkas U., Yaylı M. Ö.
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- LI. **Stability analysis of restrained nanotubes placed in electromagnetic field**
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- LII. **Stability analysis of nanobeams placed in electromagnetic field using a finite element method**
Civalek Ö., Uzun B., Yaylı M. Ö.
Arabian Journal of Geosciences, cilt.13, 2020 (SCI-Expanded)
- LIII. **Frequency, bending and buckling loads of nanobeams with different cross sections**
Civalek O., Uzun B., Yaylı M. Ö.
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- LIV. **Size-dependent transverse and longitudinal vibrations of embedded carbon and silica carbide nanotubes by nonlocal finite element method**
Civalek O., Uzun B., Yaylı M. Ö., Akgöz B.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.135, 2020 (SCI-Expanded)
- LV. **Nonlocal vibration analysis of Ti-6Al-4V/ZrO₂ functionally graded nanobeam on elastic matrix**
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- LVI. **Free vibration of FG nanobeam using a finite-element method**
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- LVII. **Free vibration analysis Silicon nanowires surrounded by elastic matrix by nonlocal finite element**

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LVIII. Carbon Nanotube Beam Model and Free Vibration Analysis

UZUN B., CİVALEK Ö.

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Diğer Dergilerde Yayınlanan Makaleler

- I. **Free Vibration Response of a Steel Liquid Storage Tank with Porous and Perforated Columns via an Exact Continuum Method**
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- II. **A Finite Element Solution for Bending Analysis of a Nanoframe using Modified Couple Stress Theory**
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- III. **An EIGENVALUE SOLUTION OF FUNCTIONALLY GRADED NANOBEAM with an ATTACHED SPRING MASS SYSTEM**
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- IV. **EXACT SOLUTIONS FOR AXIAL STATIC ANALYSIS OF NANORODS USING WEIGHTED RESIDUALS**
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- V. **A Solution Method for Longitudinal Vibrations of Functionally Graded Nanorods**
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- VII. **Nonlocal FEM Formulation for Vibration Analysis of Nanowires on Elastic Matrix with Different Materials**
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- VIII. **Free vibration analysis of BNNT with different cross-Sections via nonlocal FEM**
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- IX. **Derivation of Nonlocal Finite Element Formulation for Nano Beams**
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- X. **Defination of length-scale parameter in Eringen's Nonlocal Elasticity via Nolocal Lattice and Finite Element Formulation**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **FONKSİYONEL DERECELENDİRİLMİŞ BİR TİMOŞENKO KİRİŞİNİN ELASTİK SINIR KOŞULLARINDAKİ TİTREŞİM ANALİZİ**
Uzun B., Yaylı M. Ö.

23. Ulusal Mekanik Kongresi, Konya, Türkiye, 04 Eylül 2023, ss.370-378
- II. **PERFORE BİR MİKRO KİRİŞİN LAPLACE DÖNÜŞÜMÜ İLE EĞİLME ANALİZİ**
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- III. **FONKSİYONEL DERECELENDİRİLMİŞ BİR NANOÇUBUĞUN BOYUT ETKİSİNE BAĞLI TİTREŞİM ANALİZİ**
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- IV. **Kayıcı Ankastre Mesnet Sınır Koşuluna Sahip Mikro Kirişlerin Değiştirilmiş Gerilme Çifti Teorisi ile Dinamik Analizi**
UZUN B., YAYLI M. Ö.
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- V. **Boyut Etkisine Bağlı Nanokirişlerin Kayıcı Ankastre Mesnet Sınır Koşulunda Titreşim Davranışı**
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- VI. **Buckling analysis of restrained nanobeams using strain gradient elasticity**
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Desteklenen Projeler

YAYLI M. Ö., UZUN B., Yükseköğretim Kurumları Destekli Proje, Elastik Sınır Koşullarındaki Fonksiyonel Derecelendirilmiş Nanokirişlerin Porozite ve Boyut Etkisine Bağlı Titreşim Problemleri için Bir Çözüm Yöntemi, 2022 - 2024
Civalek Ö., TÜBİTAK Projesi, Nano/Mikro Boyutlu Yapılar İçin Boyut Etkisine Bağlı Sonlu Elemanlar Formülasyonunun Geliştirilmesi, 2017 - 2019

Bilimsel Dergilerdeki Faaliyetler

Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, Yardımcı Editör/Bölüm Editörü, 2021 - Devam Ediyor

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Metrikler

Yayın: 75
Atf (WoS): 653
Atf (Scopus): 604
H-İndeks (WoS): 14
H-İndeks (Scopus): 14

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