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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 Mekanığında Bilgisayar Uygulamaları, Lisans, 2023 - 2024

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Nonlinear stability analysis of embedded restrained nanobeams using the Stokes' transformation
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- II. Elastic medium and torsional spring effects on the nonlocal dynamic of functionally graded porous nanotubes

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- III. **On the stability analysis of a restrained FG nanobeam in an elastic matrix with neutral axis effects**
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- IV. **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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- VII. **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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- VIII. **Size dependent torsional vibration of a rotationally restrained circular FG nanorod via strain gradient nonlocal elasticity**
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- IX. **Free Vibration of a Carbon Nanotube-Reinforced Nanowire/Nanobeam with Movable Ends**
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- X. **An investigation on the torsional vibration of a FG strain gradient nanotube**
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- XI. **Vibration analysis of embedded porous nanobeams under thermal effects using boosting machine learning algorithms and semi-analytical approach**
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- XII. **Torsional vibration behavior of a restrained non-circular nanowire in an elastic matrix**
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- XIV. **Assessment of machine learning methods predicting the axial vibration frequencies of microbars**
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- XV. **Size-dependent nonlinear stability response of perforated nano/microbeams via Fourier series**
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- XVII. **Dynamics of a FG porous microbeam with metal foam under deformable boundaries**
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- XVIII. **Buckling analysis of perforated nano/microbeams with deformable boundary conditions via nonlocal strain gradient elasticity**
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- XIX. **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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- XX. **Thermomechanical vibration analysis of a restrained nanobeam**
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- XXI. **On nonlinear stability analysis of saturated embedded porous nanobeams**
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- XXIII. **Torsional static and vibration analysis of a non-circular restrained micro/nanowire**
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- XXIV. **A Hardening Nonlocal Elasticity Approach to Axial Vibration Analysis of an Arbitrarily Supported FG Nanorod**
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- XXV. **A hardening nonlocal approach for vibration of axially loaded nanobeam with deformable boundaries**
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- XXVII. **Size-Dependent Vibration of Porous Bishop Nanorod with Arbitrary Boundary Conditions and Nonlocal Elasticity Effects**
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- XXVIII. **Critical buckling loads of embedded perforated microbeams with arbitrary boundary conditions via an efficient solution method**
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- XXIX. **Thermal buckling analysis of a saturated porous thick nanobeam with arbitrary boundary conditions**
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- XXX. **Torsional static and free vibration analysis of noncircular short-fiber-reinforced microwires with**

- arbitrary boundary conditions**
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- XXXI. Vibration of FG nano-sized beams embedded in Winkler elastic foundation and with various boundary conditions**
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- XXXII. 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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- XXXIII. Nonlocal Free Vibration of Embedded Short-Fiber-Reinforced Nano-/Micro-Rods with Deformable Boundary Conditions**
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- XXXIV. Nonlocal strain gradient approach for axial vibration analysis of arbitrary restrained nanorod**
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- XXXV. Size dependent torsional vibration of a restrained single walled carbon nanotube (SWCNT) via nonlocal strain gradient approach**
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- XXXVI. Porosity dependent torsional vibrations of restrained FG nanotubes using modified couple stress theory**
Uzun B., Yaylı M. Ö.
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- XXXVII. Torsional and longitudinal vibration analysis of a porous nanorod with arbitrary boundaries**
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- XXXVIII. A Fourier sine series solution of static and dynamic response of nano/micro-scaled FG rod under torsional effect**
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- XXXIX. Finite element formulation for nano-scaled beam elements**
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- XL. An eigenvalue solution for torsional vibrations of restrained porous nanorods using doublet mechanics theory**
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- XLI. An effective analytical method for buckling solutions of a restrained FGM nonlocal beam**
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- XLII. Buckling analysis of restrained nanobeams using strain gradient elasticity**
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- XLIII. A Fourier sine series solution of static and dynamic response of nano/micro micro-scaled FG rod under torsional effect**
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- Advances in Nano Research, cilt.12, sa.5, ss.467-482, 2022 (SCI-Expanded)
- XLIV. **Torsional vibrations of functionally graded restrained nanotubes**
CİVALEK Ö., UZUN B., YAYLI M. Ö.
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- XLV. **Buckling analysis of nanobeams with deformable boundaries via doublet mechanics**
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- XLVI. **Size-Dependent Free Vibration of Silicon Nanobeams with Different Boundary Conditions and Beam Theories**
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- XLVII. **Free vibration analysis of nanotube based sensors including rotary inertia based on the Rayleigh beam and modified couple stress theories**
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- XLVIII. **Longitudinal vibration analysis of FG nanorod restrained with axial springs using doublet mechanics**
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- XLIX. **Axial dynamic analysis of a Bishop nanorod with arbitrary boundary conditions**
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ZAMM-ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK, cilt.100, sa.12, 2020 (SCI-Expanded)
- L. **Stability analysis of restrained nanotubes placed in electromagnetic field**
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- LI. **Stability analysis of nanobeams placed in electromagnetic field using a finite element method**
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- LII. **Frequency, bending and buckling loads of nanobeams with different cross sections**
Civalek O., Uzun B., Yaylı M. Ö.
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- LIII. **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)
- LIV. **Nonlocal vibration analysis of Ti-6Al-4V/ZrO₂ functionally graded nanobeam on elastic matrix**
Uzun B., Yaylı M. Ö.
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- LVI. **Free vibration analysis Silicon nanowires surrounded by elastic matrix by nonlocal finite element method**
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- LVII. **Carbon Nanotube Beam Model and Free Vibration Analysis**
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Düzenlenen Dergilerde Yayınlanan Makaleler

- I. **Free Vibration Response of a Steel Liquid Storage Tank with Porous and Perforated Columns via an Exact Continuum Method**
Küpeli T., Cavuş Y. H., UZUN B., YAYLI M. Ö.
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- II. **A Finite Element Solution for Bending Analysis of a Nanoframe using Modified Couple Stress Theory**
Uzun B., Yaylı M. Ö.
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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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- VI. **Finite Element Model of Functionally Graded Nanobeam for Free Vibration Analysis**
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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 TİMOSHENKO 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**
Uzun B., Yaylı M. Ö.
22. ULUSAL MEKANİK KONGRESİ, Adana, Türkiye, 6 - 10 Eylül 2021, ss.663-670
- IV. **Kayıcı Ankastre Mesnet Sınır Koşuluna Sahip Mikro Kirişlerin Değiştirilmiş Gerilme Çifti Teorisi ile**

Dinamik Analizi

UZUN B., YAYLI M. Ö.

INTERNATIONAL ONLINE CONFERENCES ON ENGINEERING AND NATURAL SCIENCES (IOCENS'21), Gümüşhane,
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- V. **Boyut Etkisine Bağlı Nanokirişlerin Kayıcı Ankastre Mesnet Sınır Koşulunda Titreşim Davranışı**
UZUN B., YAYLI M. Ö.

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- VI. **Buckling analysis of restrained nanobeams using strain gradient elasticity**
YAYLI M. Ö., UZUN B., DELİKTAŞ B.

23rd International Conference on Computer Methods in Mechanics, 8 - 12 Eylül 2019

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
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Geliştirilmesi, 2017 - 2019

Bilimsel Dergilerdeki Faaliyetler

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

Bilimsel Hakemlikler

APPLIED MATHEMATICAL MODELLING, Hakemli Bilimsel Dergi, Mayıs 2024

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ADVANCES IN NANO RESEARCH, SCI Kapsamındaki Dergi, Aralık 2022

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WAVES IN RANDOM AND COMPLEX MEDIA, SCI Kapsamındaki Dergi, Ağustos 2021

International Journal of Engineering and Applied Sciences, Diğer İndekslerce Taranan Dergi, Aralık 2020

WAVES IN RANDOM AND COMPLEX MEDIA, SCI Kapsamındaki Dergi, Kasım 2020

ENGINEERING COMPUTATIONS, SCI-E Kapsamındaki Dergi, Mayıs 2020

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Metrikler

Yayın: 74

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Ödüller

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