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International Researcher IDs

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Publons / Web Of Science ResearcherID: O-5149-2019

ScopusID: 57189600933

Yoksis Researcher ID: 142612

Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Yapı (Dr), Turkey 2015 - 2020

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Yapı (YI) (Tezli), Turkey 2014 - 2015

Undergraduate, Ege University, Faculty Of Engineering, İnşaat Mühendisliği Bölümü, Turkey 2008 - 2012

Dissertations

Doctorate, Sürekli parametrelili çerçevelerin tek değişkenli kayma deformasyon teorisi ve dinamik rijitlik metodu kullanılarak serbest titreşim ve harmonik tepki analizleri, Dokuz Eylul University, Fen Bilimleri Enstitüsü, 2020

Postgraduate, Eksenel doğrultuda ivmelenen kirişlerin serbest titreşim analizinin diferensiyel transformasyon yöntemi kullanılarak incelenmesi, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Yapı (YI) (Tezli), 2015

Research Areas

Structural Mechanics, Building Dynamics, Earthquake Engineering

Academic Titles / Tasks

Research Assistant PhD, Dokuz Eylul University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2020 - Continues

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- Damage to monumental masonry buildings in Hatay and Osmaniye following the 2023 Turkey earthquake sequence: The role of wall geometry, construction quality, and material properties**
BOZYIĞIT B., ÖZDEMİR A., Donmez K., Dalgic K. D., Durgut E., Yesilyurt C., Dizgin Y., Yildeniz C., İspir Arslan M., Bedirhanoglu I., et al.
Earthquake Spectra, 2024 (SCI-Expanded)

- II. **Dynamic response of damaged rigid-frame bridges subjected to moving loads using analytical based formulations**
BOZYIĞIT B.
ENGINEERING COMPUTATIONS, vol.40, no.4, pp.793-822, 2023 (SCI-Expanded)
- III. **Analytical approach for seismic analysis of onshore wind turbines considering soil-structure interaction**
BOZYIĞIT B., BOZYIĞIT İ., Prendergast L. J.
STRUCTURES, vol.51, pp.226-241, 2023 (SCI-Expanded)
- IV. **Dynamic amplification in masonry arch railway bridges**
Bozyiğit B., Acikgoz S.
Structures, vol.45, pp.1717-1728, 2022 (SCI-Expanded)
- V. **Earthquake response of linear-elastic arch-frames using exact curved beam formulations**
Bozyiğit B.
ENGINEERING COMPUTATIONS, vol.39, no.2, pp.792-812, 2022 (SCI-Expanded)
- VI. **Determination of free vibration properties of masonry arch bridges using the dynamic stiffness method**
BOZYIĞIT B., Acikgoz S.
ENGINEERING STRUCTURES, vol.250, 2022 (SCI-Expanded)
- VII. **Seismic response of pile supported frames using the combination of dynamic stiffness approach and Galerkin's method**
Bozyiğit B.
ENGINEERING STRUCTURES, vol.244, 2021 (SCI-Expanded)
- VIII. **Single variable shear deformation theory for free vibration and harmonic response of frames on flexible foundation**
BOZYIĞIT B., YEŞİLCE Y., Wahab M. A.
ENGINEERING STRUCTURES, vol.208, 2020 (SCI-Expanded)
- IX. **Free vibration and harmonic response of cracked frames using a single variable shear deformation theory**
BOZYIĞIT B., YEŞİLCE Y., Wahab M. A.
STRUCTURAL ENGINEERING AND MECHANICS, vol.74, no.1, pp.33-54, 2020 (SCI-Expanded)
- X. **Transfer matrix formulations and single variable shear deformation theory for crack detection in beam-like structures**
BOZYIĞIT B., YEŞİLCE Y., Wahab M. A.
STRUCTURAL ENGINEERING AND MECHANICS, vol.73, no.2, pp.109-121, 2020 (SCI-Expanded)
- XI. **Free vibrations of axial-loaded beams resting on viscoelastic foundation using Adomian decomposition method and differential transformation**
Bozyiğit B., Yeşilce Y., Çatal S.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.21, no.6, pp.1181-1193, 2018 (SCI-Expanded)
- XII. **Dynamic stiffness formulations for harmonic response of infilled frames**
BOZYIĞIT B., YEŞİLCE Y.
STRUCTURAL ENGINEERING AND MECHANICS, vol.68, no.2, pp.183-191, 2018 (SCI-Expanded)
- XIII. **Natural frequencies and harmonic responses of multi-story frames using single variable shear deformation theory**
BOZYIĞIT B., YEŞİLCE Y.
MECHANICS RESEARCH COMMUNICATIONS, vol.92, pp.28-36, 2018 (SCI-Expanded)
- XIV. **Investigation of natural frequencies of multi-bay and multi-storey frames using a single variable shear deformation theory**
BOZYIĞIT B., YEŞİLCE Y.
STRUCTURAL ENGINEERING AND MECHANICS, vol.65, no.1, pp.9-17, 2018 (SCI-Expanded)
- XV. **Differential transform method and Adomian decomposition method for free vibration analysis of**

fluid conveying Timoshenko pipeline

Bozyiğit B., Yeşilce Y., Çatal S.

STRUCTURAL ENGINEERING AND MECHANICS, vol.62, no.1, pp.65-77, 2017 (SCI-Expanded)

XVI. Dynamic stiffness approach and differential transformation for free vibration analysis of a moving Reddy-Bickford beam

BOZYIĞIT B., YEŞİLCE Y.

STRUCTURAL ENGINEERING AND MECHANICS, vol.58, no.5, pp.847-868, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Free vibration analysis of segmented Timoshenko beams on Pasternak foundation by using transfer matrix**
Bozyiğit B.
Deu Muhendislik Fakultesi Fen ve Muhendislik Dergisi, vol.23, no.69, pp.735-743, 2021 (Peer-Reviewed Journal)
- II. **Transfer matrix formulation for dynamic response of Timoshenko beams resting on two-parameter elastic foundation subjected to moving load**
Bozyiğit B.
Journal of Structural Engineering & Applied Mechanics, vol.4, no.2, pp.99-110, 2021 (Peer-Reviewed Journal)
- III. **EFFECTS OF INFILL WALLS ON FREE VIBRATION CHARACTERISTICS OF MULTI-STOREY FRAMES USING DYNAMIC STIFFNESS METHOD**
BOZYIĞIT B., YEŞİLCE Y.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.37, no.3, pp.885-902, 2019 (ESCI)
- IV. **Free vibration analysis of multi-span Timoshenko beams on elastic foundation using dynamic stiffness method**
Bozyiğit B., Yeşilce Y.
European Journal of Engineering and Natural Sciences, vol.3, no.2, pp.74-80, 2019 (Peer-Reviewed Journal)
- V. **Effects of Soil-structure Interaction on Free Vibrations of Industrial Chimneys via Dynamic Stiffness Formulations**
Bozyiğit B., Yeşilce Y.
Eurasian Journal of Civil Engineering and Architecture, vol.2, no.2, pp.79-85, 2018 (Peer-Reviewed Journal)
- VI. **Investigation of Natural Frequencies of Piles Partially Embedded in Elastic Soil Using Transfer Matrix Method**
Bozyiğit B., Bozyiğit İ.
Eurasian Journal of Civil Engineering and Architecture, vol.2, no.1, pp.54-61, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Crack identification in multi-span beams on elastic foundation by using transfer matrix method**
Bozyiğit B., Bozyiğit İ., Yeşilce Y., Wahab M. A.
in: Proceedings of the 13th International Conference on Damage Assessment of Structures, Magd Abdel Wahab, Editor, Springer-Verlag, Singapore, pp.402-409, 2020
- II. **Free flexural vibrations of axially loaded Timoshenko beams with internal viscous damping using dynamic stiffness formulation and differential transformation**
BOZYIĞIT B., YEŞİLCE Y., ÇATAL H. H.
in: Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering Recent Developments, A.A. Kasimzade et al., Editor, Springer, Cham, pp.307-328, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **EARTHQUAKE RESPONSE OF TOWER CARRYING TIP MASS USING DIFFERENT FINITE ELEMENT MODELING APPROACHES**
BOZYIĞIT B.
2. Uluslararası Mühendislik Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, İstanbul, Turkey, 18 September 2021
- II. **Free vibration analysis of arch-frames using the dynamic stiffness approach**
Bozyigit B., Yeşilce Y., Acikgoz S.
44th International Conference on Vibroengineering, Dubai, United Arab Emirates, 2 - 04 April 2020, vol.30, pp.72-78
- III. **Crack Identification in Multi-Span Beams on Elastic Foundation by Using Transfer Matrix Method**
Bozyiğit B., Bozyiğit İ., Yeşilce Y., Abdel Wahab M.
13th International Conference on Damage Assessment of Structures, DAMAS 2019, Porto, Portugal, 9 - 10 July 2019, pp.402-409
- IV. **Dynamic response of single and multi-span beams under a moving load using dynamic stiffness formulations and Galerkin's method**
Bozyiğit B., Acikgoz S., Yeşilce Y.
11th International Conference on Structural Dynamics, EURO DYN 2020, Virtual, Athens, Greece, 23 - 26 November 2020, vol.2, pp.2621-2630
- V. **Free flexural vibrations of axially loaded Timoshenko beams with internal viscous damp-ing using dynamic stiffness formulation and differential transformation**
BOZYIĞIT B., YEŞİLCE Y., ÇATAL H. H.
International Congress on Advanced Earthquake Resistent Structures, Samsun, Turkey, 24 - 28 October 2018
- VI. **Investigation of Natural Frequencies of Piles Partially Embedded in Elastic Soil Using Transfer Matrix Method**
BOZYIĞIT B., BOZYIĞIT İ.
3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018
- VII. **Effects of Soil-Structure Interaction on Free Vibrations of Industrial Chimneys via Dynamic Stiffness Formulations**
BOZYIĞIT B., YEŞİLCE Y.
3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018
- VIII. **Free Vibration Analysis of Multi-span Timoshenko Beams on Elastic Foundation Using Dynamic Stiffness Method**
BOZYIĞIT B., YEŞİLCE Y.
III International Conference On Engineering and Natural Science, Budapest, Hungary, 3 - 07 May 2017
- IX. **Dynamic Stiffness Formulation for Free Vibrations of Elastically Restrained Beams**
BOZYIĞIT B., YEŞİLCE Y.
12th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, 21 - 23 September 2016
- X. **TIMOSHENKO KİRİŞLERİNİN SERBEST TİTREŞİM ANALİZİNİN DİFERANSİYEL TRANSFORMASYON METODU İLE İNCELENMESİ**
Bozyiğit B., Çatal S., Çatal H. H.
ÜÇÜNCÜ TÜRKİYE DEPREM MÜHENDİSLİĞİ VE SİSMOLOJİ KONFERANSI, İzmir, Turkey, 14 - 16 October 2015, pp.10-13
- XI. **Yarı-rijit bağlantılı betonarme bacaların serbest titreşiminin diferansiyel transformasyon metodu ile analizi**
BOZYIĞIT B., ÖZTÜRKOĞLU O., ÇATAL S.
XIX Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015
- XII. **YARI RİJİT BAĞLI BETONARME BACALARIN SERBEST TİTREŞİMİNİN DİFERANSİYEL TRANSFORMASYON METODU İLE ANALİZİ**
Bozyiğit B., Öztürkoğlu O., Çatal S.
XIX. ULUSAL MEKANİK KONGRESİ, Trabzon, Turkey, 24 - 28 August 2015, pp.247-256

- XIII. **Free Vibration Analysis of Axially Accelerating Timoshenko Beams Using Differential Transform Method**
BOZYİĞİT B., YEŞİLCE Y.
International Conference on Civil and Environmental Engineering, 20 - 23 May 2015
- XIV. **İzmir İli Kent Merkezi İçinde Bir Bölgenin Dinamik Zemin Davranışının İncelenmesi**
BOZYİĞİT İ., BOZYİĞİT B., ESKİŞAR TEFÇİ T., ALTUN S.
5. Geoteknik Sempozyumu, Turkey, 5 - 07 December 2013

Metrics

Publication: 38
Citation (WoS): 109
Citation (Scopus): 106
H-Index (WoS): 7
H-Index (Scopus): 6

Scholarships

YURT DIŐI DOKTORA SIRASI ARAŐTIRMA BURSUSU, TUBITAK, 2019 - 2019