

## Doç. Dr. BARAN BOZYIĞIT

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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

ScopusID: 57189600933

Yoksis Araştırmacı ID: 142612

### Eğitim Bilgileri

Doktora, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Yapı (Dr), Türkiye 2015 - 2020

Yüksek Lisans, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Yapı (YI) (Tezli), Türkiye 2014 - 2015

Lisans, Ege Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 2008 - 2012

### Yaptığı Tezler

Doktora, Sürekli parametrel çerçevelerin tek değişkenli kayma deformasyon teorisi ve dinamik rijitlik metodu kullanılarak serbest titreşim ve harmonik tepki analizleri, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, 2020

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### Araştırma Alanları

Yapı Mekaniği, Yapı Dinamiği, Deprem Mühendisliği

### Akademik Unvanlar / Görevler

Araştırma Görevlisi Dr., Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2020 - Devam Ediyor

Araştırma Görevlisi, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - 2020

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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**  
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- II. **Dynamic response of damaged rigid-frame bridges subjected to moving loads using analytical based formulations**  
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- IV. **Dynamic amplification in masonry arch railway bridges**  
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- V. **Earthquake response of linear-elastic arch-frames using exact curved beam formulations**  
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- VI. **Determination of free vibration properties of masonry arch bridges using the dynamic stiffness method**  
BOZYIĞIT B., Acikgoz S.  
ENGINEERING STRUCTURES, cilt.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, cilt.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.  
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- IX. **Free vibration and harmonic response of cracked frames using a single variable shear deformation theory**  
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- X. **Transfer matrix formulations and single variable shear deformation theory for crack detection in beam-like structures**  
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- XI. **Free vibrations of axial-loaded beams resting on viscoelastic foundation using Adomian decomposition method and differential transformation**  
Bozyiğit B., Yeşilce Y., Çatal S.  
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- XII. **Dynamic stiffness formulations for harmonic response of infilled frames**  
BOZYIĞIT B., YEŞİLCE Y.  
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- XIII. **Natural frequencies and harmonic responses of multi-story frames using single variable shear deformation theory**  
BOZYIĞIT B., YEŞİLCE Y.  
MECHANICS RESEARCH COMMUNICATIONS, cilt.92, ss.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, cilt.65, sa.1, ss.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.  
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- XVI. **Dynamic stiffness approach and differential transformation for free vibration analysis of a moving Reddy-Bickford beam**  
BOZYIĞIT B., YEŞİLCE Y.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Free vibration analysis of segmented Timoshenko beams on Pasternak foundation by using transfer matrix**  
Bozyiğit B.  
Deu Muhendislik Fakultesi Fen ve Muhendislik Dergisi, cilt.23, sa.69, ss.735-743, 2021 (Hakemli Dergi)
- II. **Transfer matrix formulation for dynamic response of Timoshenko beams resting on two-parameter elastic foundation subjected to moving load**  
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Journal of Structural Engineering & Applied Mechanics, cilt.4, sa.2, ss.99-110, 2021 (Hakemli Dergi)
- III. **EFFECTS OF INFILL WALLS ON FREE VIBRATION CHARACTERISTICS OF MULTI-STOREY FRAMES USING DYNAMIC STIFFNESS METHOD**  
BOZYIĞIT B., YEŞİLCE Y.  
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- 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, cilt.3, sa.2, ss.74-80, 2019 (Hakemli Dergi)
- 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, cilt.2, sa.2, ss.79-85, 2018 (Hakemli Dergi)
- VI. **Investigation of Natural Frequencies of Piles Partially Embedded in Elastic Soil Using Transfer Matrix Method**  
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## **Kitap & Kitap Bölümleri**

- I. **Crack identification in multi-span beams on elastic foundation by using transfer matrix method**  
Bozyiğit B., Bozyiğit İ., Yeşilce Y., Wahab M. A.  
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- II. **Free flexural vibrations of axially loaded Timoshenko beams with internal viscous damping using dynamic stiffness formulation and differential transformation**  
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## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- 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, Türkiye, 18 Eylül 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, Birleşik Arap Emirlikleri, 2 - 04 Nisan 2020, cilt.30, ss.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.  
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- 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, Yunanistan, 23 - 26 Kasım 2020, cilt.2, ss.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.  
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- 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 Nisan 2018
- VII. **Effects of Soil-Structure Interaction on Free Vibrations of Industrial Chimneys via Dynamic Stiffness Formulations**  
BOZYIĞIT B., YEŞİLCE Y.  
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- 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, Macaristan, 3 - 07 Mayıs 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 Eylül 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, Türkiye, 14 - 16 Ekim 2015, ss.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, Türkiye, 24 - 28 Ağustos 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, Türkiye, 24 - 28 Ağustos 2015, ss.247-256

- XIII. **Free Vibration Analysis of Axially Accelerating Timoshenko Beams Using Differential Transform Method**  
BOZYİĞİT B., YEŞİLCE Y.  
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- XIV. **İzmir İli Kent Merkezi İçinde Bir Bölgenin Dinamik Zemin Davranışının İncelenmesi**  
BOZYİĞİT İ., BOZYİĞİT B., ESKİŞAR TEFÇİ T., ALTUN S.  
5. Geoteknik Sempozyumu, Türkiye, 5 - 07 Aralık 2013

## **Metrikler**

Yayın: 38

Atf (WoS): 109

Atf (Scopus): 106

H-İndeks (WoS): 7

H-İndeks (Scopus): 6

## **Burslar**

YURT DIŞI DOKTORA SIRASI ARAŞTIRMA BURSUN, TÜBİTAK, 2019 - 2019