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Education Information

Doctorate, Purdue University, Faculty of Engineering, Department of Civil Engineering, United States Of America 1997 - 2003

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1994 - 1997

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1990 - 1994

Foreign Languages

German, B2 Upper Intermediate

English, C1 Advanced

Research Areas

Civil Engineering, Structure, Structural Engineering, Earthquake Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2023 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2013 - 2023

Associate Professor, Niğde Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2011 - 2013

Assistant Professor, Niğde Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2004 - 2011

Lecturer PhD, Niğde Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2003 - 2004

Research Assistant, Niğde Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1996 - 2003

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2013 - 2016

Supervised Theses

- Öztürk B., Aydın E., Rehabilitation of Building Structures with Soft Story Irregularity via Optimal Viscous Damper Distribution, Postgraduate, A.KÖROĞLU(Student), Continues
- Nazri F. M., Öztürk B., Evaluation of the Effects of Skybridge Location between Coupled Buildings Under Seismic Excitation, Postgraduate, A.Housam(Student), 2020
- ÖZTÜRK B., Ecemiş fay hattında meydana gelmiş depremlere ait yer hareketi kayıtlarının tek serbestlik dereceli sistemlerin sismik davranışına etkisinin incelenmesi, Postgraduate, E.GÜMÜŞ(Student), 2015
- ÖZTÜRK B., Deprem bölgelerindeki sanayi tipi prefabrik yapıların sismik kapasitelerinin değerlendirilmesi için hasar olasılık eğrilerinin oluşturulması, Postgraduate, H.EREN(Student), 2013
- ÖZTÜRK B., İtme analizinin Türkiye'deki prefabrik yapıların sismik değerlendirilmesinde uygulanması, Postgraduate, C.YILDIZ(Student), 2011
- ÖZTÜRK B., Türkiye'de mevcut şartnamelere göre tasarlanmış prefabrik yapıların sismik davranışının farklı analiz yöntemleri kullanılarak incelenmesi, Postgraduate, F.DEMİRALAN(Student), 2009
- ÖZTÜRK B., Türkiye'de mevcut şartnamelere göre tasarlanmış prefabrik yapıların kapasite spektrumu metodu kullanılarak depremlerdeki hasar risklerinin incelenmesi, Postgraduate, M.MELİH(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental Comparison of the Performance of Shear Frame with TLD and TLCD Under Harmonic Ground Motion**
Kebeli Y. E., Aydın E., Öztürk B., Çetin H.
BUILDINGS (BASEL), vol.14, no.12, pp.1-13, 2024 (SCI-Expanded)
- II. **Quantitative evaluation of the damage to RC buildings caused by the 2023 southeast Turkey earthquake sequence**
Pujol S., Bedirhanoglu I., Donmez C., Dowgala J. D., ERYILMAZ YILDIRIM M., Klaboe K., Koroglu F. B., Lequesne R. D., ÖZTÜRK B., Pledger L., et al.
Earthquake Spectra, vol.40, no.1, pp.505-530, 2024 (SCI-Expanded)
- III. **Scaling Method Application for Seismic Design along the Central Anatolian Fault Zone**
Gumus E., ÖZTÜRK B., Nazri F. M.
ADVANCES IN CIVIL ENGINEERING, vol.2022, 2022 (SCI-Expanded)
- IV. **On the Efficacy of a Novel Optimized Tuned Mass Damper for Minimizing Dynamic Responses of Cantilever Beams**
ÖZTÜRK B., Cetin H., Dutkiewicz M., Aydın E., Farsangi E. N.
APPLIED SCIENCES-BASEL, vol.12, no.15, 2022 (SCI-Expanded)
- V. **Optimum vertical location and design of multiple tuned mass dampers under seismic excitations**
Öztürk B., Cetin H., Aydın E.
STRUCTURES, vol.41, pp.1141-1163, 2022 (SCI-Expanded)
- VI. **Optimization of Sky-Bridge location at coupled high-rise buildings considering seismic vulnerability functions**
Arada A. H., Öztürk B., Kassem M. M., Nazri F. M., Tan C. G.
STRUCTURAL ENGINEERING AND MECHANICS, vol.82, no.3, pp.385-400, 2022 (SCI-Expanded)
- VII. **Development of a uniform seismic vulnerability index framework for reinforced concrete building typology**
Kassem M. M., Nazri F. M., Farsangi E. N., ÖZTÜRK B.
JOURNAL OF BUILDING ENGINEERING, vol.47, 2022 (SCI-Expanded)
- VIII. **Improved Vulnerability Index Methodology to Quantify Seismic Risk and Loss Assessment in Reinforced Concrete Buildings**
Kassem M. M., Nazri F. M., Farsangi E. N., ÖZTÜRK B.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.26, no.12, pp.6172-6207, 2022 (SCI-Expanded)

- IX. **Influence of soil-structure interaction (SSI) on optimal design of passive damping devices**
Aydin E., ÖZTÜRK B., Bogdanovic A., Noroozinejad Farsangi E.
Structures, vol.28, pp.847-862, 2020 (SCI-Expanded)
- X. **Optimization of elastic spring supports for cantilever beams**
Aydin E., Dutkiewicz M., ÖZTÜRK B., Sonmez M.
STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION, vol.62, no.1, pp.55-81, 2020 (SCI-Expanded)
- XI. **Analysis of efficiency of passive dampers in multistorey buildings**
AYDIN E., ÖZTÜRK B., DUTKIEWICZ M.
JOURNAL OF SOUND AND VIBRATION, vol.439, pp.17-28, 2019 (SCI-Expanded)
- XII. **Seismic behavior of two monumental buildings in historical Cappadocia region of Turkey**
ÖZTÜRK B.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.7, pp.3103-3123, 2017 (SCI-Expanded)
- XIII. **Experiments of tuned liquid damper (TLD) on the reduced shearframe model under harmonic loads**
AYDIN E., ÖZTÜRK B., Dutkiewicz M., ÇETİN H., Okkay O., Ohancan U., Şirin Y. E.
EPJ WEB OF CONFERENCES, vol.142, no.02001, pp.1-5, 2017 (SCI-Expanded)
- XIV. **Exploring the effects of tuned mass dampers on the seismic performance of structures with nonlinear base isolation systems**
Hessabi R. M., Mercan O., ÖZTÜRK B.
EARTHQUAKES AND STRUCTURES, vol.12, no.3, pp.285-296, 2017 (SCI-Expanded)
- XV. **A European Association for the Control of Structures joint perspective. Recent studies in civil structural control across Europe**
Basu B., Bursi O. S., Casciati F., Casciati S., Del Grosso A. E., Domaneschi M., Faravelli L., Holnicki-Szulc J., Irschik H., Krommer M., et al.
STRUCTURAL CONTROL & HEALTH MONITORING, vol.21, pp.1414-1436, 2014 (SCI-Expanded)
- XVI. **Analytical Solution for Free Vibration Analysis of Beam on Elastic Foundation with Different Support Conditions**
ÖZTÜRK B., COŞKUN S. B.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2013 (SCI-Expanded)
- XVII. **The Homotopy Perturbation Method for free vibration analysis of beam on elastic foundation**
Öztürk B., Coşkun S. B.
Structural Engineering And Mechanics, vol.37, pp.415-425, 2011 (SCI-Expanded)
- XVIII. **Vibration analysis of plates with curvilinear quadrilateral domains by discrete singular convolution method**
CİVALEK Ö., Ozturk B.
STRUCTURAL ENGINEERING AND MECHANICS, vol.36, no.3, pp.279-299, 2010 (SCI-Expanded)
- XIX. **Homotopy perturbation method for free vibration analysis of beams on elastic foundation**
ÖZTÜRK B., COŞKUN S. B., Koç M. Z., ATAY M. T.
IOP Conference Series: Materials Science and Engineering, vol.10, pp.1-7, 2010 (SCI-Expanded)
- XX. **Application of numerical analysis for investigation of relationship between slump values and other rheological properties of fresh concrete**
Bilgil A., Öztürk B., Şamandar A.
SCIENTIFIC RESEARCH AND ESSAYS, vol.5, no.10, pp.1111-1121, 2010 (SCI-Expanded)
- XXI. **Free vibration analysis of tapered beam-column with pinned ends embedded in Winkler-Pasternak elastic foundation**
CİVALEK Ö., Ozturk B.
GEOMECHANICS AND ENGINEERING, vol.2, no.1, pp.45-56, 2010 (SCI-Expanded)
- XXII. **Free Vibration Analysis of Beam on Elastic Foundation by the Variational Iteration Method**
Ozturk B.
INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, vol.10, no.10, pp.1255-1262, 2009 (SCI-Expanded)
- XXIII. **Differential quadrature method for frequency analysis of membranes having irregular domains**

- using an eight-node curvilinear element**
ERSOY H., Ozpolat L., CİVALEK Ö., Ozturk B.
SMART STRUCTURES AND SYSTEMS, vol.5, no.5, pp.587-590, 2009 (SCI-Expanded)
- XXIV. **Discrete singular convolution algorithm for non-linear transient response of circular plates resting on Winkler-Pasternak elastic foundations with different types of dynamic loading**
CİVALEK Ö., Ozturk B.
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.16, no.4, pp.259-268, 2009 (SCI-Expanded)
- XXV. **Application of destruction specific energy for characterisation of concrete paving blocks**
ATICI Ü., ERSOY A., ÖZTÜRK B.
MAGAZINE OF CONCRETE RESEARCH, vol.61, no.3, pp.193-199, 2009 (SCI-Expanded)
- XXVI. **Discrete singular convolution method for free vibration analysis of tapered rectangular plate**
CİVALEK Ö., ÖZTÜRK B.
Advances In Vibration Engineering, vol.7, pp.261-273, 2008 (SCI-Expanded)
- XXVII. **Nonlinear Transient Dynamic Response of Clamped Rectangular Plates on Two Parameter Foundations by the Algorithm of the Singular Convolution**
CİVALEK Ö., ÖZTÜRK B., YAVAŞ A.
The International Journal of Science & Technology, vol.2, pp.165-177, 2007 (SCI-Expanded)
- XXVIII. **A numerical approach to determine viscosity-dependent segregation in fresh concrete**
BİLGİL A., Ozturk B., BİLGİL H.
APPLIED MATHEMATICS AND COMPUTATION, vol.162, no.1, pp.225-241, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **DESIGN OF VISCO-ELASTIC SUPPORTS FOR TIMOSHENKO CANTILEVER BEAMS**
AYDIN E., KEBELİ Y. E., ÇETİN H., ÖZTÜRK B.
SELCUK UNIVERSITY JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY, vol.11, pp.1-22, 2023 (Peer-Reviewed Journal)
- II. **Editorial: New Trends and Developments on Structural Control & Health Monitoring**
Aydin E., ÖZTÜRK B., Noroozinejad Farsangi E., Bogdanovic A.
Frontiers in Built Environment, vol.6, 2020 (ESCI)
- III. **Optimal Design and Distribution of Viscous Dampers for Shear Building Structures Under Seismic Excitations**
ÇETİN H., AYDIN E., ÖZTÜRK B.
Frontiers in Built Environment, vol.5, 2019 (Scopus)
- IV. **Optimal damper allocation in shear buildings with tuned mass dampers and viscous dampers**
ÇETİN H., AYDIN E., ÖZTÜRK B.
International Journal of Earthquake and Impact Engineering, vol.2, pp.89, 2017 (Peer-Reviewed Journal)
- V. **Optimal Damper Placement to Prevent Pounding of Adjacent Structures Considering A Target Damping Ratio and Relative Displacement,**
AYDIN E., ÖZTÜRK B., DİKMEN M.
Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.6, no.2, pp.581-592, 2017 (Peer-Reviewed Journal)
- VI. **BİTİŞİK NİZAM YAPILARIN ÇARPIŞMASINI ÖNLEMELİK İÇİN BİRHEDEF SÖNÜM ORANI VE RÖLATİF DEPLASMAN DÜŞÜNÜLEREK OPTİMUM SÖNÜMLEYİCİ YERLEŞİMİ**
AYDIN E., ÖZTÜRK B., DİKMEN M.
ENGINEERING SCIENCES, vol.6, no.2, pp.581-592, 2017 (Peer-Reviewed Journal)
- VII. **Deprem Sonrası Hızlı Hasar Tespitinde Bulanık Tabanlı Yapay Zeka Sistemlerinin Başarısı**
Öztürk B., Yavaş A., Baltacıoğlu A. K., Cıvlek Ö.
Yapı Dünyası, vol.14, no.173, pp.24-28, 2010 (Peer-Reviewed Journal)
- VIII. **Yapıların Deprem Hasarlarının Hızlı Tespitinde Bulanık Kural Tabanlı Uzman Sistemlerin Kullanımı**
BALTACIOĞLU A. K., YAVAŞ A., CİVALEK Ö., ÖZTÜRK B., AKGÖZ B.

Bahkesir Üniversitesi Fen Bilimler Enstitüsü Dergisi, vol.12, pp.65-74, 2010 (Peer-Reviewed Journal)

- IX. **IS ARTIFICIAL NEURAL NETWORK SUITABLE FOR DAMAGE LEVEL DETERMINATION OF RC STRUCTURES**
BALTACIOĞLU A., ÖZTÜRK B., CİVALEK Ö., AKGÖZ B.
International Journal of Engineering and Applied Sciences, vol.2, pp.71-81, 2010 (Peer-Reviewed Journal)
- X. **Deprem Hasarlarının Mevcut Çatlaklara Dayalı Olarak Tespitinde Uzman Sistemlerin Kullanımı**
ÖZTÜRK B., AKGÖZ B., BALTACIOĞLU A. K., DEMİR Ç., CİVALEK Ö.
İMO Antalya Bülten, vol.18, pp.18-22, 2010 (Peer-Reviewed Journal)
- XI. **Yapay zeka yöntemleri deprem hasarlarının tespitinde kullanılabilir mi?**
ÖZTÜRK B., YAVAŞ A., BALTACIOĞLU A. K., CİVALEK Ö.
Dünya İnşaat Dergisi, vol.26, pp.85-87, 2010 (Peer-Reviewed Journal)
- XII. **Betonarme Yapıların Deprem Hasarlarının Hızlı Tespitinde Yapay Zeka Sistemlerinin Kullanımı**
BALTACIOĞLU A. K., ÖZTÜRK B., YAVAŞ A., KORKMAZ A., CİVALEK Ö., AKGÖZ B.
Yapı Dünyası, vol.14, pp.50-58, 2010 (Peer-Reviewed Journal)

Books

- I. **Improvement of Building Resilience by Viscous Dampers**
AYDIN E., FARSANGI E. N., ÖZTÜRK B., BOGDANOVIC A., Dutkiewicz M.
in: Resilient Structures and Infrastructure, Noroozinejad Farsangi E., Takewaki I., Yang T., Astaneh-Asl A., Gardoni P., Editor, Springer, pp.105-127, 2019
- II. **Reusability of Ashes for the Building Sector to Strengthen the Sustainability of Waste Management**
DOĞAN SAĞLAMTİMUR N., BİLGİL A., ÖZTÜRK B.
in: Handbook of Research on Supply Chain Management for Sustainable Development, , Editor, IGI Global Publishing, pp.265-281, 2018
- III. **SİSMİK BÖLGELEME ÇALIŞMALARI: DÜNYA'DAN VE TÜRKİYE'DEN ÖRNEKLER**
ÖZTÜRK B.
in: Deprem Gerçeği ve Kentleşme, , Editor, Kocaeli Büyükşehir Belediyesi, 2015
- IV. **Elastic Stability Analysis of Euler Columns Using Analytical Approximate Techniques**
COŞKUN S. B., ÖZTÜRK B.
in: Advances in Computational Stability Analysis, , Editor, InTech, 2012
- V. **Transverse Vibration Analysis of Euler-Bernoulli Beams Using Analytical Approximate Techniques**
COŞKUN S. B., ATAY M. T., ÖZTÜRK B.
in: Advances in Vibration Analysis Research, , Editor, InTech, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of the Performance of TLD and TLCD Under Harmonic Ground Motion**
AYDIN E., KEBELİ Y. E., ÖZTÜRK B., ÇETİN H.
8th International Conference on Protection of Structures against Hazards (PSH 2024), Shenyang, China, 19 - 22 September 2024
- II. **Brief Recommendations Addressing RC Buildings Affected by Earthquakes**
Dowgala J., DÖNMEZ C., İrfanoğlu A., ÖZTÜRK B., Pujol S., Shah P.
18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, 30 June - 05 July 2024
- III. **Behavior of Pendulum Damper Structures Under the Effect of Earthquake and Harmonic Loads**
KEBELİ Y. E., AYDIN E., ÖZTÜRK B., ÇETİN H.
18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, 30 June - 05 July 2024
- IV. **Lessons From The 2023 SE Türkiye EQS: A Study On Damaged RC Buildings Considering The Hassan Index**

DÖNMEZ C., Dowgala J., ERYILMAZ YILDIRIM M., GÜLLÜ M. F., Iturburu L., KÖROĞLU F. B., Lequesne R., ÖZTÜRK B., Pujol S., Rincon J., et al.

18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, 30 June - 05 July 2024

- V. **Correlation Between Intensity Measures and Damage Caused by the 2023 Turkey Earthquakes**
Abdo B., ERYILMAZ YILDIRIM M., KÖROĞLU F. B., ÖZTÜRK B., SÖNMEZ E., Speicher M., Pujol S.
18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, 30 June - 05 July 2024
- VI. **Optimizing the Placement of Elastic Springs to Mitigate the Pounding Effect on Adjacent Buildings**
ÇETİN H., ÖZTÜRK B., AYDIN E., KEBELİ Y. E.
3rd International Conference on Resilience, Earthquake Engineering and Structural Health Monitoring (ICONREM 2024), Torino, Italy, 24 - 27 June 2024
- VII. **Optimum Viscous Damper Distribution for Seismic Rehabilitation of Building Structures with Soft Story Irregularity**
Köroğlu A., ÖZTÜRK B., ÇETİN H., AYDIN E.
18th World Conference on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures (18WCSI), Antalya, Turkey, 06 November 2023
- VIII. **Structural performance of R/C buildings in 2023 Kahramanmaraş earthquakes under the lens of Hassan index**
ERYILMAZ YILDIRIM M., YEŞİLYURT C., GÖZÜN S. Ü., ÖZTÜRK B., DÖNMEZ C.
7th International Conference on Earthquake Engineering and Seismology (7ICEES), Antalya, Turkey, 6 - 10 November 2023
- IX. **Discussion on the causes of the observed damages during the February 2023 Kahramanmaraş Earthquakes**
Gültepe E., Çömlekoğlu H. G., ÖZTÜRK B., DÖNMEZ C.
7th International Conference on Earthquake Engineering and Seismology (7ICEES), Antalya, Turkey, 06 November 2023
- X. **Steel Diagonal Brace Optimization Based on Absolute Acceleration Minimization**
AYDIN E., ÇETİN H., KEBELİ Y. E., ÖZTÜRK B.
3rd International Civil Engineering and Architecture Conference, 12-14 October 2023, Trabzon, Trabzon, Turkey, 12 - 14 October 2023
- XI. **Timoshenko Konsol Kirişlerinin Minimum Titreşimi İçin Visko-Elastik Mesnet Tasarımı**
AYDIN E., KEBELİ Y. E., ÇETİN H., ÖZTÜRK B.
23.Ulusal Mekanik Kongresi, Konya, Konya, Turkey, 4 - 08 September 2023
- XII. **An Experimental Study on the Effects of Different Pendulum Damper Designs on Structural Behavior**
Aydın E., Öztürk B., Kebeli Y. E.
17th World Conference on Seismic Isolation (17WCSI), Turin, Italy, 11 - 16 September 2022, pp.1-12
- XIII. **An Experimental Study on Strengthening Structures with Elastic Springs**
Aydın E., Öztürk B., Çetin H.
3rd European Conference on Earthquake Engineering and Seismology, Bucuresti, Romania, 4 - 09 September 2022, pp.1-8
- XIV. **Effect of Tuned Mass Dampers on Displacement Response Behavior of Structures Under Harmonic Loading**
ÖZTÜRK B., AYDIN E., Çetin H.
7th European Conference on Structural Control (EACS 2022), Varşova, Poland, 11 July 2022
- XV. **An Experimental Study for the Damping of Earthquake Effects in Buildings by Magnetic Forces**
ÖZTÜRK B., AYDIN E., Çetin H.
8th World Conference on Structural Control and Monitoring (8WCSCM), Orlando, U.S.A., United States Of America, 06 June 2022
- XVI. **Design of an Optimum Tuned Mass Damper for Cantilever Beam Response Reduction**
Çetin H., ÖZTÜRK B., Dutkiewicz M., AYDIN E.
16th International Conference "Dynamical Systems - Theory and Applications" (DSTA 2021), Lodz, Poland, Lodz, Poland, 06 December 2021

- XVII. **Optimum Parameters and Location of Multiple Tuned Mass Dampers Under Seismic Excitation**
Çetin H., AYDIN E., ÖZTÜRK B.
17th World Conference on Earthquake Engineering (17WCEE) , Sendai, Japan, Sendai, Japan, 27 September - 02 October 2021
- XVIII. **Optimal damper distributions in shear frames considering soil conditions**
Aydin E., ÖZTÜRK B., SİVRİKAYA O.
11th International Conference on Structural Dynamics, EURODYN 2020, Virtual, Athens, Greece, 23 - 26 November 2020, vol.1, pp.1459-1474
- XIX. **Optimal viscous damper placement to prevent pounding of adjacent buildings**
Cetin H., ÖZTÜRK B., Aydin E.
11th International Conference on Structural Dynamics, EURODYN 2020, Virtual, Athens, Greece, 23 - 26 November 2020, vol.2, pp.3735-3743
- XX. **Stability of Nanobeams Via Homotopy Perturbation Method**
COŞKUN S. B., ÖZTÜRK B.
5th International Conference on Advances in Mechanical Engineering (ICAME 2019), 17 - 19 December 2019
- XXI. **Analysis of Longitudinal Vibration of Nanorods Via Homotopy Perturbation Method**
COŞKUN S. B., ÖZTÜRK B.
5th International Conference on Advances in Mechanical Engineering (ICAME 2019), 17 - 19 December 2019
- XXII. **Analysis of Nanobeam Vibration Using Homotopy Perturbation Method**
COŞKUN S. B., ÖZTÜRK B.
5th International Conference on Advances in Mechanical Engineering (ICAME 2019), 17 - 19 December 2019
- XXIII. **Optimum Tuned Mass Damper (TMD) Design for The Cantilever Beam Response Reduction**
Çetin H., AYDIN E., ÖZTÜRK B.
4th Polish Congress of Mechanics and 23rd International Conference on Computer Methods in Mechanics PCM-CMM-2019, 8 - 12 September 2019
- XXIV. **Ayarlı Kütle Sönümleyicili ve Viskoz Sönümleyicili Yapılarda Karma Bir Pasif Kontrol Uygulaması**
ÇETİN H., AYDIN E., ÖZTÜRK B.
Yirminci Ulusal Mekanik Kongresi, Bursa, Turkey, 5 - 09 September 2017
- XXV. **Eğilme Rijitliği Üslü Değişen Kolonların Kritik Burkulma Yüklerinin Diferansiyel Dönüşüm Yöntemi ile Elde Edilmesi**
COŞKUN S. B., Memiş S., ÖZTÜRK B.
21.Ulusal Mekanik Kongresi, Niğde, Turkey, 2 - 06 September 2019
- XXVI. **Application of Viscous Fluid Dampers to Rehabilitate Structural Vibrations**
AYDIN E., ÖZTÜRK B., CETIN H., TARIKULU M., SİNA GÜR F.
2019 EMI International Conference, Lyon, France, 3 - 05 July 2019
- XXVII. **Effects of Tuned Liquid Column Damper Properties on the Dynamic Response of Structures**
AYDIN E., ÖZTÜRK B., BATI M., KAVAZ Y., KILINC B.
2019 EMI International Conference, Lyon, France, 3 - 05 July 2019, pp.198
- XXVIII. **Viscous Damper Design Considering Soil-Structure Interaction**
AYDIN E., BOGDANOVIC A., ÖZTÜRK B.
36th General Assembly of the European Seismological Commission (ESC), Valletta, Malta, 2 - 07 September 2018, pp.456
- XXIX. **Design of Viscous Dampers Based on Minimization of First Floor Interstorey Drift**
ÇETİN H., AYDIN E., ÖZTÜRK B.
7th World Conference on Structural Control and Monitoring, Qingdao, China, 22 - 25 July 2018
- XXX. **Comparison of Optimal Damper Distributions in Shear Frames in terms of Soil Conditions**
AYDIN E., SİVRİKAYA O., ÖZTÜRK B.
7th World Conference on Structural Control and Monitoring, Qingdao, China, 22 - 25 July 2018
- XXXI. **Strengthening Plane Frames with Steel Plates**
AYDIN E., ÖZTÜRK B., ÇETİN H., GASIR M.
7th World Conference on Structural Control and Monitoring, Qingdao, China, 22 - 25 July 2018

- XXXII. **Experiments of Tuned Liquid Column Damper (TLCD) on the Reduced Shear Frames Under Harmonic Loads**
AYDIN E., ÖZTÜRK B., ÇETİN H., DUTKIEWICZ M., OKKAY O., OHANCAN U., ŞİRİN Y. E.
16th European Conference on Earthquake Engineering (16ECEE), Thessaloniki, Greece, 17 - 21 June 2018
- XXXIII. **Determination of Optimal Elastic Springs for Cantilever Beams Supported by Elastic Foundation**
AYDIN E., ÖZTÜRK B., DUTKIEWICZ M.
24th International Conference on Engineering Mechanics, Svratka, Czech Republic, 14 - 17 May 2018
- XXXIV. **Control of vibrations of multistory buildings with use of passive dampers**
AYDIN E., ÖZTÜRK B., DUTKIEWICZ M.
14th International Conference DSTA 2017, Lodz, Poland, 11 - 14 December 2017
- XXXV. **Optimal Passive Control of Shear Buildings**
AYDIN E., ÖZTÜRK B., Dutkiewicz M.
Engineering Mechanics 2017, Svratka, Czech Republic, 15 - 18 May 2017, pp.98-101
- XXXVI. **Application of Viscous Dampers for Prevention of Pounding in Adjacent Reinforced Concrete Buildings**
AYDIN E., ÖZTÜRK B., ÇETİN H., ŞİMŞEK T.
16th World Conference on Earthquake Engineering, Santiago Chile, Chile, 9 - 13 January 2017
- XXXVII. **Experiments of Tuned Liquid Damper (TLD) on the Reduced Shear Frame Model under Harmonic Loads**
AYDIN E., ÖZTÜRK B., Dutkiewicz M., Çetin H., Okkay O., Ohancan U., Şirin Y. E.
Experimental Fluid Mechanics (EFM) 2016 Conference, Czech Republic, 15 - 18 November 2016
- XXXVIII. **SARKAÇ TİPİ AYARLI KÜTLE SÖNÜMLEYİCİLERİN HARMONİK ETKİLER ALTINDAKİ DAVRANIŞI: DENEYSEL BİR ÇALIŞMA**
AYDIN E., ÖZTÜRK B., GÖKDEMİR H., ÇETİN H.
3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı (3TDMSK) , İzmir, Turkey, Turkey, 14 - 16 October 2015
- XXXIX. **Dynamic rehabilitation of mosque minarets by using a tuned mass damper TMD**
AYDIN E., ÖZTÜRK B., ÇETİN H., TARIM F.
3rd Conference on Smart Monitoring, Assessment and Rehabilitation of Structures (SMAR 2015), 14 - 18 September 2015
- XL. **Ayarlı Kütle Sönümleyicileri AKS ile Kontrol Edilen On Beş Katlı Yapı Modelinin Harmonik ve Sismik Performansının Araştırılması**
ÇETİN H., AYDIN E., ÖZTÜRK B.
8. Ulusal Deprem Mühendisliği Konferansı, Turkey, 15 - 20 May 2015
- XLI. **The evaluation of damage mechanism of unreinforced masonry buildings after Van (2011) and Elazığ (2010) Earthquakes**
Guney D., AYDIN E., ÖZTÜRK B.
11th International Conference on Damage Assessment of Structures (DAMAS), Ghent, Belgium, 24 - 26 August 2015, vol.628
- XLII. **Free Vibration Analysis of Variable Stiffness Beams Using Analytical Approximate Techniques**
COŞKUN S. B., ÖZTÜRK B., ATAY M. T.
11th International Congress on Advances in Civil Engineering, ACE 2014, Istanbul, Turkey, 21 - 25 October 2014
- XLIII. **Investigation of Behavior of Adjacent Planar Steel Frames Connected with Rigid Bars under Earthquake Effects**
AYDIN E., ÖZTÜRK B., ŞAHİN E.
6th World Conference on Structural Control and Health Monitoring (6WCSCM) , Barcelona, 15 - 17 July 2014
- XLIV. **The Effects of Tuned Mass Dampers on Seismic Performance of Structures with Nonlinear Base Isolators: A Parametric Study**
HESSABI R., MERCAN O., ÖZTÜRK B.
6th World Conference on Structural Control and Health Monitoring (6WCSCM) , Barcelona, 15 - 17 July 2014
- XLV. **Adomian Decomposition Method for vibration of nonuniform Euler Beams on elastic foundation**
COŞKUN S. B., ÖZTÜRK B., MUTMAN U.

9th International Conference on Structural Dynamics (EURODYN), Porto, Portugal, 30 June - 02 July 2014, pp.1935-1940

- XLVI. **Ayarlı Kütle Sönümleyicilerin Üç Katlı Yapı Modelinin Sismik ve Harmonik Davranışına Etkileri**
ÇETİN H., AYDIN E., ÖZTÜRK B.
2. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Hatay, Turkey, 25 - 27 September 2013
- XLVII. **Sensitivity Analyses of Variations on Seismic Response via Viscous Damper Placement in Planar Building Structures**
AYDIN E., ÖZTÜRK B., GÜNEY D.
10th International Conference on Urban Earthquake Engineering, Tokyo, Japan, 1 - 02 March 2013
- XLVIII. **Seismic Performance Assessment of Industrial Structures in Turkey Using The Fragility Curves**
ÖZTÜRK B., ŞAHİN H. E., YILDIZ C.
15th World Conference on Earthquake Engineering, Lisbon, Portugal, 24 - 28 September 2012
- XLIX. **Seismic Response of Low-Rise Base Isolated Structures**
AYDIN E., ÖZTÜRK B., KILINÇ O. F.
15th World Conference on Earthquake Engineering, Lisbon, Portugal, 24 - 28 September 2012
- L. **Evaluation of Time Delay Margin for Added Damping of SDOF Systems in Real-Time Dynamic Hybrid Testing (RTDHT) under Seismic Excitation**
AYASUN S., ÖZTÜRK B.
15th World Conference on Earthquake Engineering, Lisbon, Portugal, 24 - 28 September 2012
- LI. **Rehabilitation of Planar Building Structures using Steel Diagonal Braces and Dampers**
AYDIN E., ÖZTÜRK B., DÜZEL E.
5th European Conference on Structural Control (EACS 2012) , Genoa, Italy, 18 - 20 June 2012
- LII. **İtme Analizi Kullanılarak Yüksek Riskli Deprem Bölgesindeki Bir Prefabrik Yapının Sismik Kapasitesinin İncelenmesi**
ÖZTÜRK B., YILDIZ C., AYDIN E.
1. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Ankara, Turkey, 12 - 14 October 2011
- LIII. **Application of Preliminary Microzonation and Seismic Vulnerability Assessment in a City of Medium Seismic Risk in Turkey**
ÖZTÜRK B.
5th International Conf. on Earthquake Geotechnical Engineering, Santiago, Chile, 10 - 13 January 2011
- LIV. **Analytical investigation of effect of retrofit application using CFRP on seismic behavior of a monumental building at historical Cappadocia region of Turkey**
Ozturk B., Senturk T., Yilmaz C.
9th US National and 10th Canadian Conference on Earthquake Engineering 2010, Including Papers from the 4th International Tsunami Symposium, Toronto, Canada, 25 - 29 July 2010, vol.3, pp.2055-2064
- LV. **Evaluation of Time Delay Margin for Actively Controlled Linear SDOF Systems under Seismic Excitation**
ÖZTÜRK B., AYASUN S.
14th European Conference on Earthquake Engineering 2010: Ohrid, Republic of Macedonia, 30 August - 03 September 2010
- LVI. **EFFECT OF FRP RETROFITTING APPLICATION ON SEISMIC BEHAVIOR OF A HISTORICAL BUILDING AT NIGDE, TURKEY**
ÖZTÜRK B., YILMAZ C., ŞENTÜRK T.
14th European Conference on Earthquake Engineering 2010: Ohrid, Republic of Macedonia, 30 August - 03 September 2010
- LVII. **SEISMIC MICROZONATION STUDIES AND VULNERABILITY ASSESSMENT OF EXISTING BUILDINGS AT NIGDE, TURKEY**
ÖZTÜRK B.
14th European Conference on Earthquake Engineering 2010: Ohrid, Republic of Macedonia, 30 August - 03 September 2010
- LVIII. **APPLICATION OF VISCOUS DAMPERS FOR PREVENTION OF POUNDING EFFECT IN ADJACENT**

BUILDINGS

AYDIN E., ÖZTÜRK B., YEŞİL L.

14th European Conference on Earthquake Engineering, Ohrid, 30 August - 03 September 2010

- LIX. **Analytical Investigation of Effect of Retrofit Application using FRP on Seismic Behavior of a Monumental Building at Historical Cappadocia Region of Turkey**

ÖZTÜRK B., ŞENTÜRK T., YILMAZ C.

9th U.S. National and 10th Canadian Conference on Earthquake Engineering, Toronto, 25 - 29 July 2010

- LX. **Seismic Performance Evaluation of Industrial Building Structures in Turkey using Capacity Spectrum Method**

ÖZTÜRK B., SADAK M.

7th International Conference on Urban Earthquake Engineering and 5 ICEE, Tokyo, 3 - 05 March 2010

- LXI. **Homotopy perturbation method for free vibration analysis of beams on elastic foundation**

Ozturk B., COŞKUN S. B., KOC M. Z., ATAY M. T.

9th World Congress on Computational Mechanics/4th Asian Pacific Congress on Computational Mechanics, Sydney, Australia, 19 - 23 July 2010, vol.10

- LXII. **Variations on Seismic Response Via Viscous Damper Placement In A Five-Storey Planar Building Structures**

AYDIN E., ÖZTÜRK B., POLAT F.

International Earthquake Symposium, Kocaeli, 17 - 19 August 2009

- LXIII. **Application of Capacity Spectrum Method for Performance Assessment of An Industrial Building Structure Located in An Earthquake-Prone Region in Turkey**

ÖZTÜRK B., SADAK M., DEMİRALAN F.

International Earthquake Symposium, Kocaeli, 17 - 19 August 2009

- LXIV. **Eğilme Rijitliği Değişken Elastik Kolonların Kritik Burkulma Yüklerinin Varyasyonel İterasyon Metodu ile Elde Edilmesi**

COŞKUN S. B., ATAY M. T., ÖZTÜRK B.

Ulusal Mekanik Kongresi (UMK2009), Kayseri, Turkey, 22 - 26 June 2009

- LXV. **Seismic Drift Response of Precast Concrete Building Structures Located in Earthquake-Prone Regions in Turkey Considering Nonlinear Analysis Procedures**

ÖZTÜRK B., DEMİRALAN F., CİVALEK Ö.

14th World Conference on Earthquake Engineering, Beijing, 12 - 17 October 2008

- LXVI. **Investigation of Seismic Behavior of a Monumental Building in Historical Cappadocia Region of Turkey**

ÖZTÜRK B.

14th World Conference on Earthquake Engineering, Beijing, 12 - 17 October 2008

- LXVII. **Preliminary Seismic Microzonation and Seismic Vulnerability Assessment of Existing Buildings at the City of Nigde, Turkey**

ÖZTÜRK B.

14th World Conference on Earthquake Engineering, Beijing, 12 - 17 October 2008

- LXVIII. **INVESTIGATION OF SEISMIC BEHAVIOR OF REINFORCED CONCRETE SHEARWALL BUILDING FRAMES SUBJECTED TO GROUND MOTIONS FROM THE 1999 TURKISH EARTHQUAKES**

ÖZTÜRK B.

14th World Conference on Earthquake Engineering, Beijing, 12 - 17 October 2008

- LXIX. **Yüksek Riskli Deprem Bölgesindeki Bir Prefabrik Yapının Farklı Yer Hareketleri Etkisindeki Sismik Davranışının İncelenmesi**

ÖZTÜRK B., DEMİRALAN F.

6. Ulusal Deprem Konferansı, İstanbul, Turkey, 16 - 20 October 2007

- LXX. **Evaluation of Seismic Behavior of the Selected Buildings Located Close To Duzce Recording Station in Duzce, Turkey where two Subsequent Earthquakes Occurred in 1999**

ÖZTÜRK B.

9th Canadian Conference on Earthquake Engineering, Ottawa, 26 - 29 June 2007

- LXXI. **Evaluation of Drift Demand on the Basis of Nonlinear Response of Building Structures Located at Seismically Active Regions**
ÖZTÜRK B.
4th Conference on Earthquake Geotechnical Engineering, Selanik, 25 - 28 June 2007
- LXXII. **Investigation of Effects of Ground Motions on SDOF Systems Using Records from the Recent Earthquakes in Turkey**
ÖZTÜRK B.
ASCE Structural Conference 2007, Long Island, California, 16 - 19 May 2007
- LXXIII. **DYNAMIC ANALYSIS AND THE RESULTING NONLINEAR RESPONSE OF BUILDING STRUCTURES LOCATED IN SEISMICALLY ACTIVE REGIONS IN TURKEY**
Öztürk B.
ICEE 2006: 4th International Conference on Earthquake Engineering, Taipei, Taipei, Taiwan, 12 - 13 October 2006, no.78, pp.1-10
- LXXIV. **A NEW APPROACH FOR THE DEVELOPMENT OF A NONLINEAR DISPLACEMENT RESPONSE SPECTRA IN TURKEY**
ÖZTÜRK B.
First European Conference on Earthquake Engineering and Seismology, Geneva, 3 - 08 September 2006
- LXXV. **INVESTIGATION OF THE CONCEPT OF GROUND VELOCITY INCREMENT, ΔV AND ITS EFFECTS ON THE NONLINEAR DISPLACEMENT RESPONSE OF SINGLE-DEGREE-OF-FREEDOM (SDOF) SYSTEMS**
ÖZTÜRK B.
First European Conference on Earthquake Engineering and Seismology, Geneva, 3 - 08 September 2006
- LXXVI. **A simple procedure for the assessment of seismic drift response of building structures located in seismically active and near-fault regions**
ÖZTÜRK B.
First European Conference on Earthquake Engineering and Seismology, Geneva, 3 - 08 September 2006
- LXXVII. **Öngerilmeli Beton Palplanş Kullanımı**
KEYDER E., ÖZTÜRK B.
İMO XIV. Teknik Kongre, İzmir, Turkey, 23 October 1997

Other Publications

- I. **Current State of Art of The Role of Research Infrastructures on Performance Based Earthquake Engineering and Future Perspectives for Europe, International Workshop on Role of Research Infrastructures in Performance-Based Earthquake Engineering, 14th European Conference in Earthquake Engineering, Ohrid, Macedonia**
ÖZTÜRK B.
Presentation, pp.1-20, 2010
- II. **Seismic risk assessment studies of prefabricated buildings located in highly seismic regions of Turkey, Turkish - Japanese Earthquake Workshop**
Öztürk B.
Presentation, pp.1-20, 2009

Supported Projects

Öztürk B., TUBITAK Project, Sismik Hasar Görebilirlik Endeksi Çerçevesinin Gelistirilmesi için Prensiplerin Belirlenmesi, 2019 - 2019

ÖZTÜRK B., GÜLDÜR B., Project Supported by Higher Education Institutions, İnşaat Mühendisliği Bölümü Yapı Mekaniği ve Yapı Malzemesi Laboratuvarları Makine-Teçhizat Alımı, 2016 - 2019

Güldür Erkal B., Öztürk B., TUBITAK Project, Lazer Tarayıcılarla Yapılarda Otomatik Yüzey Hasar Tespiti ve Yüzeysel

Hasar Derecelerini Belgelendirilme Yazılımı, 2015 - 2017

Öztürk B., Project Supported by Higher Education Institutions, Ayarlı Kütle Sönümleyicileri (AKS) ile Kontrol Edilen On Beş Katlı Yapı Modelinin Harmonik ve Sismik Performansının Araştırılması, 2015 - 2015

ÖZTÜRK B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Merkezi Araştırma Laboratuvar Kurulumu, 2010 - 2013

ÖZTÜRK B., World Bank Supported Project, Yeni Zelanda Depremi Sonrası Bölgesel Tespit ve Tahmin Projesi, 2011 - 2011

Civalek Ö., Öztürk B., Project Supported by Higher Education Institutions, Antalya İlindeki Betonarme Binaların Yapay Zeka Tekniğiyle Hızlı Hasar Görebilirlik Analizleri, 2009 - 2011

ÖZTÜRK B., World Bank Supported Project, Haiti Depremi Sonrası Bölgesel Hasar Tespit ve Tahmin Projesi, 2010 - 2010

Activities in Scientific Journals

Frontiers in Built Environment, Special Issue Editor, 2022 - Continues

MATERIALS, Special Issue Editor, 2022 - Continues

ADVANCES IN CIVIL ENGINEERING, Special Issue Editor, 2021 - Continues

APPLIED SCIENCES-BASEL, Special Issue Editor, 2021 - Continues

Practice Periodical on Structural Design and Construction-ASCE, Assistant Editor/Section Editor, 2021 - Continues

The Open Construction and Building Technology Journal, Committee Member, 2019 - Continues

Frontiers in Built Environment, Committee Member, 2017 - Continues

Teknik Dergi, Publication Committee Member, 2014 - Continues

International Journal of Engineering and Applied Sciences, Committee Member, 2009 - Continues

Frontiers in Built Environment, Special Issue Editor, 2019 - 2020

International Journal of Earthquake and Impact Engineering, First Editor, 2017 - 2019

Metrics

Publication: 125

Citation (WoS): 606

Citation (Scopus): 683

H-Index (WoS): 15

H-Index (Scopus): 15

Awards

Öztürk B., Practice Periodical On Structural Design And Construction - Outstanding Reviewer For 2020, American Society Of Civil Engineers (Asce), May 2021

ÖZTÜRK B., Takuji Kobori Prize 2015, International Association for Structural Control and Monitoring (IASCM), July 2018

ÖZTÜRK B., Excellence in Teaching Award, Purdue University, Department of Mathematics, Amerika Birleşik Devletleri, November 2002