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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Structural Engineering, Turkey 2020 - Continues

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Structural Engineering, Turkey 2018 - 2020

Undergraduate, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, Turkey 2013 - 2018

Dissertations

Postgraduate, Estimations of seismic input energy and inelastic top displacement demand in moment resisting frame type structures, Istanbul Technical University, Fen Bilimleri Enstitüsü, Structural Engineering, 2020

Research Areas

Structural Engineering, Performance of Constructed Facilities, Earthquake Engineering

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **State-of-the-art review for lead extrusion dampers: development, improvement, characteristics, application areas, and research needs**
alım F., Güllü A., Soydan C., Yüksel E.
Structures, vol.58, 2023 (SCI-Expanded)
- II. **Estimation of the story response parameters through the seismic input energy for moment-resisting**

frames

Güllü A., Çalın F., Yüksel E.

Soil Dynamics and Earthquake Engineering, vol.164, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Quantitative Investigation on the Effects of Flexure-Dominated Reinforced Concrete Column Characteristics on the Dissipated Energy**
MÜDERRİSOĞLU Z., DİNDAR A. A., BOZER A., ÖZKAYNAK H., GÜLLÜ A., GÜNGÖR B., ÇALIM F., HASANOĞLU S.
Turkish journal of civil engineering, vol.35, pp.87-102, 2024 (Scopus)
- II. **Betonarme binaların mevcut deprem performansının belirlenmesi için TBDY-2018'de önerilen doğrusal hesap yönteminin uygulanması üzerine bir irdeleme**
GÖKÇE T., KARAYEL V., ÇALIM F., RİFAİ Ş., ŞAHİN M. F., YÜKSEL E.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.3, pp.337-350, 2023 (Peer-Reviewed Journal)
- III. **Investigation of the Effect of Reinforcement Type on the Flexural Performance of Slab Tracks**
Durgun Y., Güllü A., Çalın F., Özden B., Özcan A., Ölçer B., Senol E., Sahin F., Saruhan H., Yüksel E.
Journal of Transportation Engineering Part A: Systems, vol.149, no.6, 2023 (Scopus)
- IV. **Development and experimental validation of finite element models for a prestressed lead extrusion damper**
Çalın F., Güllü A., Soydan C., Yüksel E.
Structures, vol.50, pp.1114-1125, 2023 (Scopus)
- V. **Development of Finite Element Model for a Special Lead Extrusion Damper**
GÜLLÜ A., ÇALIM F., SOYDAN C., YÜKSEL E.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.25, no.5, pp.1159-1167, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Nonlinear Finite Element Modeling of Prestressed Lead Extrusion Dampers**
ÇALIM F., GÜLLÜ A., SOYDAN C., YÜKSEL E.
COMPDYN 2023 9th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Atina, Greece, 12 - 14 June 2023
- II. **Experimental and analytical evaluation of a lead extrusion damper and its implementation on a steel beam-to-column connection**
ÇALIM F., GÜLLÜ A., SOYDAN C., YÜKSEL E.
18. Türkiye SIMULIA Abaqus Kullanıcılar Toplantısı (TAKT 2023), İstanbul, Turkey, 04 May 2023
- III. **Performance Improvement of an RC Moment-Resisting Frame by a Novel Lead Extrusion Damper: A Numerical Investigation**
Çalın F., Soydan C., Güllü A., Yüksel E.
International Symposium of the International Federation for Structural Concrete, fib Symposium 2023, İstanbul, Turkey, 5 - 07 June 2023, vol.349 LNCE, pp.1722-1731
- IV. **Constitutive Model Characterization of the RC Columns Using Energy Terms**
Güngör B., Hasanoğlu S., Çalın F., Muderrisoğlu Z., Dindar A. A., Bozer A., Özkaynak H., Güllü A.
2nd International Workshop on Energy-Based Seismic Engineering, IWEBSE 2023, Porto, Portugal, 3 - 06 July 2023, vol.236 LNCE, pp.258-268
- V. **Elastic and Inelastic Input Energy Correlations: Effects of Damping, Pulse Type, and Significant Duration**
Çalın F., Güllü A., Yüksel E.
2nd International Workshop on Energy-Based Seismic Engineering, IWEBSE 2023, Porto, Portugal, 3 - 06 July

2023, vol.236 LNCE, pp.138-153

- VI. **Bambu Donatılı Betonarme Kirişlerde Düşey Yükler Altında Göçmenin Deneysel İncelenmesi**
KARAKUŞ ZAMBAK Ö., BİNBİR E., ÇALIM F., ÇELİK O. C.
Türkiye İnşaat Mühendisliği 18. Teknik Kongre Ve Sergisi, İstanbul, Turkey, 7 - 09 November 2022
- VII. **Numerical investigation on the effect of different shape memory alloys' material characteristics on energy dissipative cushions**
ÇALIM F., GÜLLÜ A., YÜKSEL E.
3rd European Conference on Earthquake Engineering and Seismology (3ECEES), Bucharest, Romania, 4 - 08 September 2022
- VIII. **Numerical evaluation of the column lap splice location effect on RC frame behavior**
ÇALIM F., GÖNÜLCÜ E., SAFARLI M., TOPRAK M. A., KARAYEL V., YÜKSEL E.
3rd European Conference on Earthquake Engineering and Seismology (3ECEES), Bucharest, Romania, 4 - 08 September 2022
- IX. **Numerical Modelling of the Supplementary Steel Dampers for Polyurethane Seismic Isolation Devices**
GÖNÜLCÜ E., ÇALIM F., GÖKÇE T., YÜKSEL E., ORAKDÖĞEN E.
6th International Conference on Earthquake Engineering and Seismology (6ICEES), Kocaeli, Turkey, 14 - 16 October 2021
- X. **Numerical Simulation of the Lead Extrusion Damper Effect on a Steel Beam-Column Connection Behavior**
ÇALIM F., GÜLLÜ A., SOYDAN C., YÜKSEL E.
6th International Conference on Earthquake Engineering and Seismology (6ICEES), Kocaeli, Turkey, 14 - 16 October 2021
- XI. **Evaluation of Seismic Input Energy Distribution in Moment Frames**
ÇALIM F., GÜLLÜ A., YÜKSEL E.
14th International Congress on Advances in Civil Engineering (ACE2020-21), İstanbul, Turkey, 6 - 08 September 2021
- XII. **Shake Table Tests of a Special Suspended Ceiling System**
GÖNÜLCÜ E., ÇALIM F., TOPRAK M. A., GÖKÇE T., DURGUN Y., YÜKSEL E.
14th International Congress on Advances in Civil Engineering (ACE2020-21), İstanbul, Turkey, 6 - 08 September 2021
- XIII. **Evaluation of Different Approaches to Estimate Seismic Input Energy and Top Displacement Demand of Moment Resisting Frames**
ÇALIM F., GÜLLÜ A., YÜKSEL E.
1st International Workshop on Energy-Based Seismic Engineering. IWEBSE 2021, Madrid, Spain, 24 - 26 May 2021, vol.155, pp.71-83
- XIV. **Experimental Investigation on the Performance of Rail Fastening Systems**
TOPRAK M. A., ÇALIM F., GÖNÜLCÜ E., ŞAHİN M. F., GÜLLÜ A., DURGUN Y., SARUHAN H., YÜKSEL E.
6th International Conference on Civil, Structural and Transportation Engineering (ICCSTE'21), Canada, 18 - 20 May 2021

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Publication: 21

Citation (Scopus): 8

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