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Personal Information

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Education Information

Doctorate, İstanbul Teknik  niversitesi, Fen Bilimleri Enstit s , Yapı M hendisliđi, Turkey 2017 - Continues

Post Graduate, İstanbul Teknik  niversitesi, Fen Bilimleri Enstit s , Yapı M hendisliđi, Turkey 2014 - 2017

Under Graduate, İstanbul Teknik  niversitesi, İnşaat Fak ltesi, İnşaat M hendisliđi, Turkey 2008 - 2013

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

IT, Autocad, İT  Elektrik M hendisliđi B l m , 2011

Dissertations

Post Graduate, Yıđma Duvarların D zlem İçi Davranışlarının Modellenmesi ve Analizi, İstanbul Teknik  niversitesi, Yapı M hendisliđi, İnşaat M hendisliđi, 2017

Research Areas

Mechanics of Solid Bodies, Civil Engineering, Mechanical, Structural Mechanics, Structure, Masonry Structures, Building materials, Composite materials, Numerical Analysis, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, İnşaat, İnşaat M hendisliđi, 2015 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- Nonlinear mixed finite element formulations for the analysis of planar curved beams**
Dođruođlu A. N., K m rc  S.
COMPUTERS & STRUCTURES, vol.221, pp.63-81, 2019 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Macro and Micro Modeling of the Unreinforced Masonry Shear Walls**
Kömürcü S.
European Journal of Engineering and Natural Sciences, vol.3, pp.116-123, 2019 (Refereed Journals of Other Institutions)
- II. **Preliminary structural analysis of arch dams using a flat shell finite element formulation**
Kömürcü S., Yılmaz M.
Journal of Structural Engineering Applied Mechanics, vol.2, no.2019, pp.47-52, 2019 (Refereed Journals of Other Institutions)
- III. **Numerical modelling of the in-plane loaded homogenized masonry walls**
Kömürcü S., Gedikli A.
Periodicals of Engineering and Natural Sciences, vol.5, pp.314-321, 2017 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Nonlinear Investigation of the Short Column Effect for Confined Walls Under Cyclic Loading**
Kömürcü S.
9th Turkish Conference on Earthquake Engineering, İstanbul, Turkey, 2 - 03 June 2021, vol.21, no.1, pp.173-180
- II. **The Behavior of Masonry Wall Constructed Using Biaxial Interlocking Concrete Block, Solid Concrete Block and Cement Sand Brick Subjected to the Compressive Load**
Kömürcü S., Aziz F., Mansor H., Arshad F.
ICMSMM 2020 : International Conference on Masonry Structures and Masonry Materials, Singapore, Singapore, 9 - 10 January 2020, vol.14, no.1, pp.1
- III. **SIMULATION OF THE NONLINEAR BEHAVIOUR OF FRAME-WALL INTERACTION FOR CONFINED MASONRY SHEAR WALLS**
KÖMÜRCÜ S.
5. International Conference on Earthquake Engineering and Seismology (5ICEES), 8 - 11 October 2019
- IV. **FINITE ELEMENT SIMULATION OF MASONRY WALLS UNDER CYCLIC LOADING USING A HETEROGENEOUS MODEL**
KÖMÜRCÜ S.
5. International Conference on Earthquake Engineering and Seismology (5ICEES), 8 - 11 October 2019
- V. **ELASTİK ZEMİN ÜZERİNE OTURAN TIMOSHENKO KİRİŞLERİN YAYILI YÜK ETKİSİ ALTINDA BURKULMA ANALİZİ**
DOĞRUOĞLU A. N. , KÖMÜRCÜ S.
21. ULUSAL MEKANİK KONGRESİ, Turkey, 2 - 06 September 2019
- VI. **YALITIMLI CAM ÜNİTELERİNDE YAYILI YÜKLEME ALTINDA PLAKALAR ARASINDAKİ YÜK PAYLAŞIMININ SONLU ELEMANLAR YÖNTEMİ İLE ANALİZİ**
YILMAZ M., KÖMÜRCÜ S., DEMİRKAN E., ÇELİK M.
21. ULUSAL MEKANİK KONGRESİ, Turkey, 02 September 2019
- VII. **Nonlinear Finite Element Analysis of Different Masonry Wall Brick Bond Styles**
KÖMÜRCÜ S.
iSTE-CE'xx2019- International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, 13 - 15 June 2019
- VIII. **Investigation of Mortar Thickness Effect for Masonry Walls Using a Continuous Micro Model**
KÖMÜRCÜ S.
iSTE-CE'xx2019- International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, 13 - 15 June 2019
- IX. **Numerical Analysis Of The Structural Behaviour Of Arch Dams Using Shell Finite Element Formulation**

Kömürcü S., Yılmaz M.

5th INTERNATIONAL SYMPOSIUM on DAM SAFETY, İstanbul, Turkey, 27 - 31 October 2018, vol.1, pp.252-257

- X. **Geometrical Nonlinear Interaction Model of Thin Insulating Glass Units**
Yılmaz M., KÖMÜRCÜ S., DEMİRKAN E.
13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 - 14 September 2018
- XI. **Numerical Large Deflection Analysis of Annular Plates**
DEMİRKAN E., KÖMÜRCÜ S., Yılmaz M.
13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 - 14 September 2018
- XII. **Comparative Analysis of the Nonlinear Mixed Finite Element Formulations for the in-plane Curved Beams**
Doğruoğlu A. N. , Kömürcü S.
13. INTERNATIONAL CONFERENCE ON COMPUTATIONAL STRUCTURES TECHNOLOGY, Barselona, Spain, 4 - 06 September 2018
- XIII. **3D Finite Element Modeling of the Nonlinear Behavior of Confined Masonry Walls**
KÖMÜRCÜ S.
International Conference on Applied Mathematics in Engineering (ICAME), Balıkesir, Turkey, 27 - 29 June 2018
- XIV. **Investigation of the Structural Design Parameters of Masonry Walls Based on Nonlinear Finite Element Analysis**
KÖMÜRCÜ S.
International Conference on Applied Mathematics in Engineering (ICAME), Balıkesir, Turkey, 27 - 29 June 2018
- XV. **Buckling Analysis of Beams with Varying Flexural Rigidity on Elastic Foundation**
Doğruoğlu A. N. , Kömürcü S.
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), Kyiv, Ukraine, 2 - 06 May 2018, pp.198-202
- XVI. **Stability Analysis of Beams Subjected to Distinct Loading Types on Elastic Foundation**
Doğruoğlu A. N. , Kömürcü S.
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), Kiev, Ukraine, 2 - 06 May 2018, pp.203-207
- XVII. **Donatısız Yiğma Duvarların Düzlem İçi Davranışlarının Nümerik Olarak İncelenmesi**
KÖMÜRCÜ S., GEDİKLİ A.
Uluslararası Katılımlı 6. Tarihi Yapıların Korunması ve Güçlendirilmesi Sempozyumu, 2 - 04 November 2017
- XVIII. **Homojenleştirilen Yiğma Duvarların Doğrusal Olmayan Davranışlarının Modellenmesi**
Kömürcü S., Gedikli A.
4. ULUSLARARASI DEPREM MÜHENDİSLİĞİ VE SİSMOLOJİ KONFERANSI, Eskişehir, Turkey, 11 - 13 October 2017
- XIX. **YIĞMA DUVARLARIN DÜZLEM İÇİ KIRILMA MEKANİZMALARININ NÜMERİK OLARAK BELİRLENMESİ**
KÖMÜRCÜ S.
20. ULUSAL MEKANİK KONGRESİ, Turkey, 5 - 09 September 2017
- XX. **Yiğma Duvar Tasarımında Mikro ve Makro Modelleme Tekniklerinin İncelenmesi**
Kömürcü S., Gedikli A.
2. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, Kocaeli, Turkey, 12 - 13 May 2017, pp.167-168
- XXI. **Yiğma Duvarlarda Düzlem İçi Hasarların Nümerik Analizi**
KÖMÜRCÜ S., GEDİKLİ A.
2. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, Kocaeli, Turkey, 12 - 13 May 2017, pp.165-166
- XXII. **Numerical Modelling of the In-Plane Loaded Homogenized Masonry Walls**
Kömürcü S., Gedikli A.
3rd. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Budapeşte, Hungary, 3 - 07 May 2017, pp.790-797
- XXIII. **Macro and Micro Modelling of the Unreinforced Masonry Shear Walls**
Kömürcü S., Gedikli A.
3rd. INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Budapest, Hungary, 3 - 07 May

2017, pp.798-805

- XXIV. **24 SERBESTLİK DERECELİ KABUK SONLU ELAMAN FORMULASYONU**
KÖMÜRCÜ S., Yılmaz M.
19. ULUSAL MEKANİK KONGRESİ, Trabzon, Turkey, 24 - 28 August 2015

Supported Projects

Gedikli A., Kömürcü S., Project Supported by Higher Education Institutions, 2016 - 2017

Activities in Scientific Journals

Research on Engineering Structures and Materials (RESM) , Advisory Committee Member, 2020 - Continues

Memberships / Tasks in Scientific Organizations

İnşaat Mühendisleri Odası, Member, 2012 - Continues

Scientific Refereeing

KSCE JOURNAL OF CIVIL ENGINEERING, Journal Indexed in SCI-E, May 2021
Research on Engineering Structures and Materials (RESM), Other Indexed Journal, April 2021
Sigma Journal of Engineering and Natural Sciences , Journal Indexed in ESCI, March 2021
SN Applied Sciences, Other Indexed Journal, January 2021
El-Cezeri Journal of Science and Engineering, Other Indexed Journal, November 2020
SCIENTIA IRANICA, Journal Indexed in SCI-E, October 2020
Research on Engineering Structures and Materials (RESM), Other Indexed Journal, July 2020
KSCE JOURNAL OF CIVIL ENGINEERING, Journal Indexed in SCI-E, May 2020
KSCE JOURNAL OF CIVIL ENGINEERING, Journal Indexed in SCI-E, November 2019
Applied Acoustics, SCI Journal, January 2019

Edit Congress and Symposium Activities

9th Turkish Conference on Earthquake Engineering, Attendee, İstanbul, Turkey, 2021
5. International Conference on Earthquake Engineering and Seismology (5ICEES), Working Group, Ankara, Turkey, 2019
4th International Conference on Buildings, Construction and Environmental Engineering, Working Group, İstanbul, Turkey, 2019
XXI. Ulusal Mekanik Kongresi, Working Group, Niğde, Turkey, 2019
iSTE-CE'2019- International Conference on Innovation, Sustainability, Technology and Education in Civil Engineering, Working Group, Hatay, Turkey, 2019
International 5th National Symposium on Dam Safety, Attendee, İstanbul, Turkey, 2018
13th International Congress on Advances in Civil Engineering, Attendee, İzmir, Turkey, 2018
13th International Conference on Computational Structures Technology, Attendee, Barcelona, Spain, 2018
10th International Conference on Engineering Computational Technology, Attendee, Barcelona, Spain, 2018
International Conference on Applied Mathematics in Engineering (ICAME), Attendee, Balıkesir, Turkey, 2018
4th International Conference on Engineering and Natural Science, Working Group, Kyiv, Ukraine, 2018
Uluslararası 6. Tarihi Yığma Yapıların Korunması ve Güçlendirilmesi Sempozyumu, Attendee, Trabzon, Turkey, 2017

4. Uluslararası Deprem ve Sismoloji Konferansı, Attendee, Eskişehir, Turkey, 2017

XX. Ulusal Mekanik Kongresi, Attendee, Bursa, Turkey, 2017

3rd International Conference on Symmetries, Differential Equations and Applications, Attendee, İstanbul, Turkey, 2017

III International Conference on Engineering and Natural Science, Attendee, Budapest, Hungary, 2017

Deprem, İnşaatlar, Kentsel Dönüşüm, Devletin Sorumlulukları Konferansı, Attendee, İstanbul, Turkey, 2017

2. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, Attendee, Kocaeli, Turkey, 2017

XIX. Ulusal Mekanik Kongresi, Attendee, Trabzon, Turkey, 2015

Non Academic Experience

Other Public Institution, Ege Ordu İstihkâm Başkanlığı