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Education Information

Doctorate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey

1990 - 1998

Postgraduate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü,

Turkey 1987 - 1990

Undergraduate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü,

Turkey 1983 - 1987

Foreign Languages

English

Certificates, Courses and Trainings

Education Management and Planning, TestStar II Operation Course, MTS Systems GMBH BERLIN, 1994

Education Management and Planning, Individual Training Course in Structural Engineering, Japan International Cooperation Agency, 1994

Dissertations

Doctorate, Bazı Düzensizlikler İçeren Üç Boyutlu Büyük Yapı Sistemlerinin Doğrusal Olmayan Çözümlemesi, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği, 1998

Postgraduate, Eksantrik Kuleli Yapıların Dinamik Yükler Altındaki Davranışı, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği, 1990

Research Areas

Civil Engineering, Structure, Prefabrication, Structural Engineering, Performance of Constructed Facilities, Earthquake Engineering, Concrete Structures, Repair and Strengthening in Buildings, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2017 - Continues
Associate Professor, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2011 - 2017
Assistant Professor, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2005 - 2011
Assistant Professor, State University of New York College at Buffalo, School Of Engineering And Applied Sciences, Department Of Civil, Structural And Environmental Engineering, 2004 - 2005
Assistant Professor, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2000 - 2004
Research Assistant, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 1994 - 1998
Research Assistant, Tokyo University, Institute Of Industrial Science , Industrial Science, 1993 - 1994
Research Assistant, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 1988 - 1993

Advising Theses

Yüksel E., Çapraz Yay Gruplarını Kullanan Yeni Bir Sismik Yalıtım Sistemi, Doctorate, V.Karayel(Student), 2016
Yüksel E., An Adaptive Modal Pushover Analysis Procedure to Evaluate The Earthquake Performance of High-Rise Buildings, Doctorate, M.Sürmeli(Student), 2016
Yüksel E., Yeni Bir Enerji Sönümleyici Eleman ve Prefabrike Yapı Sistemlerindeki Moment Aktarmayan Birleşimlere Uygulanması, Doctorate, C.Soydan(Student), 2015
Yüksel E., İnce Sinüzoidal Gövdeli Çelik I Kesitlerden Oluşturulan Bir Kolon-Kiriş Birleşiminin Davranışı, Doctorate, R.Aydın(Student), 2014
Yüksel E., Dolgu Duvarları Lifli Polimer İle Sargılanmış Betonarme Çerçeve Sistemlerin Deprem Davranışı ve Yapısal Sönüm Özellikleri, Doctorate, H.Özkaynak(Student), 2010
Yüksel E., Retrofitting of Vulnerable Reinforced Concrete Frames with Shotcrete Walls, Doctorate, P.Teymür(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Vision-Based Dynamic Response Measurements of Structures by Using Smartphone Videos and Alternative Techniques**
Karamse G., Yardimci F., Gullu A., Yüksel E., Yalcm C., Buyukozturk O.
INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, vol.23, no.7, 2023 (SCI-Expanded)
- II. **Estimation of the story response parameters through the seismic input energy for moment-resisting frames**
Güllü A., Çalım F., Yüksel E.
Soil Dynamics and Earthquake Engineering, vol.164, 2023 (SCI-Expanded)
- III. **A Practical Methodology to Estimate Site Fundamental Periods Based on the KiK-net Borehole Velocity Profiles and Its Application to Istanbul**
Gullu A., Hasanoglu S., Yüksel E.
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.112, no.5, pp.2606-2620, 2022 (SCI-Expanded)
- IV. **Development of a novel fuse type mechanical connector**
Senol E., Yüksel E., Ozkaynak H., Soydan C., Sürmeli M., Karakus K., Saruhan H.
STRUCTURES, vol.44, pp.618-632, 2022 (SCI-Expanded)
- V. **Closed-Form Demonstration and Shake Table Verification of Damping Effect on the Seismic Energy**
Gullu A., Yüksel E., Altinta E.
INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, vol.22, no.12, 2022 (SCI-Expanded)
- VI. **The 26 september 2019 Istanbul Earthquake, its characteristics and reminders**
Güllü A., Yüksel E.
Earthquake and Structures, vol.23, no.1, pp.75-85, 2022 (SCI-Expanded)
- VII. **Piecewise exact solution of the seismic energy balance equation and its verification by shake table tests**

Gullu A., Yüksel E.

ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.22, no.3, 2022 (SCI-Expanded)

- VIII. **Improvement of seismic performance of precast frames with cladding panels fastened by energy dissipative steel cushions**
ÖZKAYNAK H., Khajehdehi A., Yüksel E., Karadogan F.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.19, no.12, pp.5339-5367, 2021 (SCI-Expanded)
- IX. **Damping effect on seismic input energy and its verification by shake table tests**
Gullu A., Yüksel E., Yalcin C., Buyukozturk O.
ADVANCES IN STRUCTURAL ENGINEERING, vol.24, no.12, pp.2669-2683, 2021 (SCI-Expanded)
- X. **Rapid and Easily Applicable Procedure for Full-Scale Laboratory Tests of Ballastless Slab Tracks**
Gullu A., Ozden B., Olcer B., Ozcan A. I., Binbir E., Durgun Y., Saruhan H., Sahin F., Senol E., Khajehdehi A., et al.
JOURNAL OF TRANSPORTATION ENGINEERING PART A-SYSTEMS, vol.147, no.9, 2021 (SCI-Expanded)
- XI. **Improvement of the polyurethane spring isolation device for HV post insulators and its evaluation by fragility curves**
Gokce T., Orakdöğen E., Yüksel E.
EARTHQUAKE SPECTRA, vol.37, no.3, pp.1677-1697, 2021 (SCI-Expanded)
- XII. **Seismic design of RC frame structures based on energy-balance method**
Yalcin C., DİNDAR A. A., Yüksel E., Ozkaynak H., Buyukozturk O.
ENGINEERING STRUCTURES, vol.237, 2021 (SCI-Expanded)
- XIII. **Experimental investigation and pseudoelastic truss model for in-plane behavior of corrugated sandwich panels with polyurethane foam core**
Yüksel E., Gullu A., Ozkaynak H., SOYDAN C., Khajehdehi A., Senol E., Saghayesh A. M., Saruhan H.
STRUCTURES, vol.29, pp.823-842, 2021 (SCI-Expanded)
- XIV. **Seismic performance improvement of single-storey precast reinforced concrete industrial buildings in use**
SOYDAN C., Yüksel E., İRTEM E.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.135, 2020 (SCI-Expanded)
- XV. **Numerical Modelling of Energy Dissipative Steel Cushions**
Güllü A., Smyrou E., Khajehdehi A., Ozkaynak H., Bal I. E., Yüksel E., Karadogan F.
INTERNATIONAL JOURNAL OF STEEL STRUCTURES, vol.19, no.4, pp.1331-1341, 2019 (SCI-Expanded)
- XVI. **Cyclic behavior of reinforced concrete cladding panels connected with energy dissipative steel cushions**
Karadogan F., Yüksel E., Khajehdehi A., Ozkaynak H., Gullu A., Senol E.
ENGINEERING STRUCTURES, vol.189, pp.423-439, 2019 (SCI-Expanded)
- XVII. **Uni-axial shaking table tests and validations of a seismic isolation system made of spring tube braces**
Karayel V., Yuksel E., Gokce T., Sahin F.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.118, pp.35-46, 2019 (SCI-Expanded)
- XVIII. **Seismic performance enhancement of high-voltage post insulators by a polyurethane spring isolation device**
Gokce T., Yüksel E., Orakdöğen E.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.17, no.3, pp.1739-1762, 2019 (SCI-Expanded)
- XIX. **An improved input energy spectrum verified by the shake table tests**
Gullu A., Yüksel E., Yalcin C., Dindar A. A., Ozkaynak H., Büyüköztürk O.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.48, no.1, pp.27-45, 2019 (SCI-Expanded)
- XX. **Development and Cyclic Behavior of U-Shaped Steel Dampers with Perforated and Nonparallel Arm Configurations**
ATASEVER K., Çelik Ö., Yüksel E.
INTERNATIONAL JOURNAL OF STEEL STRUCTURES, vol.18, no.5, pp.1741-1753, 2018 (SCI-Expanded)
- XXI. **An adaptive modal pushover analysis procedure (VMPA-A) for buildings subjected to bi-directional ground motions**
Surmeli M., Yüksel E.

- BULLETIN OF EARTHQUAKE ENGINEERING, vol.16, no.11, pp.5257-5277, 2018 (SCI-Expanded)
- XXII. **Uni-axial behavior of energy dissipative steel cushions**
Ozkaynak H., Khajehdehi A., Gullu A., Azizisales F., Yüksel E., Karadogan F.
STEEL AND COMPOSITE STRUCTURES, vol.27, no.6, pp.661-674, 2018 (SCI-Expanded)
- XXIII. **Retrofitting of pinned beam-column connections in RC precast frames using lead extrusion dampers**
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BULLETIN OF EARTHQUAKE ENGINEERING, vol.16, no.3, pp.1273-1292, 2018 (SCI-Expanded)
- XXIV. **Behaviour of steel cushions subjected to combined actions**
Yüksel E., Karadogan F., Ozkaynak H., Khajehdehi A., Gullu A., Smyrou E., Bal I. E.
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- XXV. **Spring tube braces for seismic isolation of buildings**
KARAYEL V., Yüksel E., GOKCE T., Şahin F.
EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, vol.16, no.1, pp.219-231, 2017 (SCI-Expanded)
- XXVI. **Cyclic behaviour of diagonally-stiffened beam-to-column connections of corrugated-web I sections**
AYDIN R., Yüksel E., Yardimci N., GOKCE T.
ENGINEERING STRUCTURES, vol.121, pp.120-135, 2016 (SCI-Expanded)
- XXVII. **A capacity curve model for confined clay brick infills**
Ozkaynak H., Surmeli M., Yüksel E.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.14, no.3, pp.889-918, 2016 (SCI-Expanded)
- XXVIII. **A variant of modal pushover analyses (VMPA) based on a non-incremental procedure**
Surmeli M., Yüksel E.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.13, no.11, pp.3353-3379, 2015 (SCI-Expanded)
- XXIX. **Seismic behavior of two exterior beam-column connections made of normal-strength concrete developed for precast construction**
Yüksel E., KARADOGAN H. F., Bal I. E., İlki A., BAL A., INCI P.
ENGINEERING STRUCTURES, vol.99, pp.157-172, 2015 (SCI-Expanded)
- XXX. **Development of Earthquake Energy Demand Spectra**
Dindar A. A., Yalcin C., Yüksel E., Ozkaynak H., Buyukozturk O.
EARTHQUAKE SPECTRA, vol.31, no.3, pp.1667-1689, 2015 (SCI-Expanded)
- XXXI. **In-plane behaviour of beam-to-column connections of corrugated web I-sections**
AYDIN R., Yüksel E., Yardimci N., KISA M. H., GOKCE T.
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.100, pp.183-196, 2014 (SCI-Expanded)
- XXXII. **Masonry infill walls in reinforced concrete frames as a source of structural damping**
Ozkaynak H., Yüksel E., Yalcin C., Dindar A. A., Büyüköztürk O.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.43, no.7, pp.949-968, 2014 (SCI-Expanded)
- XXXIII. **The Behavior of a Steel Connection Equipped with the Lead Extrusion Damper**
SOYDAN C., Yüksel E., Irtem E.
ADVANCES IN STRUCTURAL ENGINEERING, vol.17, no.1, pp.25-39, 2014 (SCI-Expanded)
- XXXIV. **DBYBHY2007 ve FEMA440 da Önerilen Performans Noktası Belirleme Yaklaşımlarının Karşılaştırılması**
Girgin K., Yüksel E., Karabulut A., Çakırterzi S.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.19, no.3, pp.145-151, 2013 (SCI-Expanded)
- XXXV. **Retrofitting of Vulnerable Reinforced Concrete Frames with Wet-Mixed Shotcrete Panels**
TEYMUR P., PALA S., Yüksel E.
ADVANCES IN STRUCTURAL ENGINEERING, vol.15, no.1, pp.1-14, 2012 (SCI-Expanded)
- XXXVI. **Characteristics of CFRP retrofitted hollow brick infill walls of reinforced concrete frames**
Ozsayin B., YILMAZ E., ISPIR M., Ozkaynak H., YUKSEL E., İlki A.
Construction and Building Materials, vol.25, no.10, pp.4017-4024, 2011 (SCI-Expanded)
- XXXVII. **Earthquake performance improvement of low rise RC buildings using high strength clay brick walls**
Yüksel E., TEYMUR P.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.9, no.4, pp.1157-1181, 2011 (SCI-Expanded)

- XXXVIII. **Pseudo Dynamic Testing Methodology and an Application**
Yüksel E., Ozkaynak H., SURMELI M.
TEKNIK DERGI, vol.22, no.2, pp.5463-5469, 2011 (SCI-Expanded)
- XXXIX. **Quasi-static and pseudo-dynamic testing of infilled RC frames retrofitted with CFRP material**
OZKAYNAK H., Yüksel E., Büyükoztürk O., Yalcin C., Dindar A. A.
COMPOSITES PART B-ENGINEERING, vol.42, no.2, pp.238-263, 2011 (SCI-Expanded)
- XL. **Quasi-static cyclic displacement pattern for seismic evaluation of reinforced concrete columns**
Yüksel E., SURMELI M.
STRUCTURAL ENGINEERING AND MECHANICS, vol.37, no.3, pp.267-283, 2011 (SCI-Expanded)
- XLI. **Failure analysis of one-story precast structures for near-fault and far-fault strong ground motions**
Yüksel E., SURMELI M.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.8, no.4, pp.937-953, 2010 (SCI-Expanded)
- XLII. **Performance of alternative CFRP retrofitting schemes used in infilled RC frames**
Yüksel E., OZKAYNAK H., Büyükoztürk O., Yalcin C., Dindar A. A., SURMELI M., TASTAN D.
CONSTRUCTION AND BUILDING MATERIALS, vol.24, no.4, pp.596-609, 2010 (SCI-Expanded)
- XLIII. **Transforming of an existing structural analysis program to the object-oriented framework**
Sivaselvan M. V., Yüksel E., Winkelmann K., Reinhorn A. M.
ADVANCES IN ENGINEERING SOFTWARE, vol.40, no.11, pp.1131-1139, 2009 (SCI-Expanded)
- XLIV. **Experimental and finite element investigations on the collapse of a Mero space truss roof structure - A case study**
Caglayan O., Yuksel E.
Engineering Failure Analysis, vol.15, no.5, pp.458-470, 2008 (SCI-Expanded)
- XLV. **Estimation of the fundamental vibration period of existing RC buildings in turkey utilizing ambient vibration records**
Güler K., Yuksel E., KOÇAK A.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.12, pp.140-150, 2008 (SCI-Expanded)
- XLVI. **Local thin jacketing for the retrofitting of reinforced concrete columns**
YUCE S. Z., Yuksel E., BINGOL Y., TASKIN K., KARADOĞAN H. F.
STRUCTURAL ENGINEERING AND MECHANICS, vol.27, no.5, pp.589-607, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **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)
- II. **Yapısal Kaplama Betonu Uygulanan Önüretim Boşluklu Döşeme Sistemlerin Eğilme Davranışı**
Yüksel E., Durgun Y., Güllü A., Saruhan H.
Beton Prefabrikasyon, vol.124, pp.5-16, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Yapı Mühendisliğine Giriş Yapısal Çözümleme Cilt-III, Hiperstatik Sistemler, Yerdeğiştirme Yöntemleri**
KARADOĞAN H. F., PALA S., YÜKSEL E., DURGUN Y.
Birsen, 2016
- II. **Yapı Mühendisliğine Giriş Yapısal Çözümleme Cilt II Hiperstatik Sistemler Kuvvet Yöntemi**
KARADOĞAN H. F., PALA S., YÜKSEL E., DURGUN Y.
BİRSEN, İstanbul, 2015
- III. **Yapı Mühendisliğine Giriş Yapısal Çözümleme Cilt-I**
karadoğan f., pala s., yüksel E., Durgun Y.

Refereed Congress / Symposium Publications in Proceedings

- I. **Piece-wise exact computation of seismic energy balance equation**
GÜLLÜ A., YÜKSEL E.
The Sixteenth International Conference on Civil, Structural Environmental Engineering Computing, 16 - 19 September 2019
- II. **THE DEVELOPMENT OF A SEISMIC ISOLATION DEVICE FOR HIGH VOLTAGE PORCELAIN INSULATORS**
Gökçe T., ORAKDÖĞEN E., YÜKSEL E.
16th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, 1 - 06 June 2019
- III. **Elastik deprem giriş enerjisi spektrumunun deneysel incelenmesi**
GÜLLÜ A., YÜKSEL E., KARADOĞAN H. F.
Yapı Mekaniği Laboratuvarları Toplantısı, Trabzon, Turkey, 17 - 18 November 2018
- IV. **Improvement of a Locking Mechanism for the Seismic Isolation System Made of Spring Tube Braces**
Doluyurt H., DİNDAR A. A., YÜKSEL E.
13th Advances in Civil Engineering Congress, 12 - 14 September 2018
- V. **Flexural performance of slab tracks designed for high speed railway lines**
Güllü A., Durgun Y., Şenol E., Şahin F., Nobakhtjoo A., Saruhan H., Yüksel E., Özden B., Ölçer B., Özcan A. İ.
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- VI. **Numerical Modeling of One Storey Precast RC Frame with Pinned Beam-to-Column Connection**
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- VII. **Failure Mode Investigation for High Voltage Porcelain Insulators**
Gökçe T., ORAKDÖĞEN E., YÜKSEL E.
16th European Conference on Earthquake Engineering, 18 - 21 June 2018
- VIII. **Numerical Modelling of One Storey Precast RC Frame with Pinned Beam-to-Column Connection**
Soydan C., YÜKSEL E., İrtem E.
16th European Conference on Earthquake Engineering, Thessaloniki, Greece, 18 - 21 June 2018
- IX. **A Novel Video-Based Displacement Measurement Approach Used In Shake Table Experiments**
YARDIMCI N., YALÇIN M. C., YÜKSEL E.
16th European Conference on Earthquake Engineering, 18 - 21 June 2018
- X. **Seismic Energy Based Design: Numerical Evaluation of Diverse MDOF Systems**
GÜLLÜ A., YÜKSEL E., YALÇIN M. C.
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- XI. **Experimental Studies on An Original Fuse-Type Mechanical Coupler**
Şenol E., YÜKSEL E.
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- XII. **ELASTİK DEPREM GİRİŞ ENERJİSİ SPEKTRUMUNUN DENEYSEL İNCELENMESİ**
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- XIII. **Modelling hysteretic behaviour of U-shaped steel dampers**
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- XIV. **Moment-Resisting Beam-to-Column Connections of Corrugated Web I Sections**
AYDIN R., YÜKSEL E., YARDIMCI N.
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- XV. **Tek Serbetlik Dereceli Sistemlerin Yapıya Giren Sismik Enerjisinin Ölçeklendirilmesi**
OKUYAN S., YALÇIN M. C., YÜKSEL E.

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- XVI. **Sarsma Masası Deneylerinde Video Kayıtları Kullanılarak Geliştirilen Bir Ölçüm Yöntemi**
YARDIMCI F., YALÇIN M. C., YÜKSEL E.
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- XVII. **In-Plane Behaviour of Sandwich Roof Panels**
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- XVIII. **Shake Table Tests of a Special Raised Floor System**
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- XX. **Elastik Deprem Giriş Enerjisi Spektrumunun Deneysel İncelenmesi**
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- XXI. **EXPERIMENTAL VERIFICATION OF THE ELASTIC INPUT ENERGY SPECTUM AND A SUGGESTION**
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- XXII. **Experimental verification of the elastic input energy spectrum and a suggestion**
GÜLLÜ A., YÜKSEL E., YALÇIN M. C., Dindar A. A., ÖZKAYNAK H.
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- XXIII. **ENERGY DISSIPATOR STEEL CUSHIONS: CLOSED FORM EQUATIONS FOR THE COMBINING ACTIONS**
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- XXIV. **Energy Dissipater Steel Cushions: Closed Form Equations for the Combining Actions Paper Np=2122**
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- XXV. **Seismic Protection of High Voltage Bushings by Using Polyurethane Springs Paper No=2381**
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- XXVI. **Determination of the Characteristics of a New Prestressed Lead Extrusion Damper**
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- XXVII. **Determination of the Characteristics of a New Prestressed Lead Extrusion Damper**
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- XXVIII. **EXPERIMENTAL AND ANALYTICAL EVALUATION OF THE ENERGY DISSIPATER CUSHIONS UNDER EFFECT OF COMBINED LOADING**
Güllü A., Yüksel E., Karadoğan F.
Türkiye Abaqus Kullanıcıları Toplantısı, İstanbul, Turkey, 3 - 04 November 2016, pp.1
- XXIX. **EXPERIMENTAL AND ANALYTICAL EVALUATION OF THE AXIAL BEHAVIOUR OF ENERGY DISSIPATIVE STEEL CUSHIONS**
Güllü A., Yüksel E., Khajehdehi A., Karadoğan F., Özkaynak H.
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- XXX. **EXPERIMENTAL AND ANALYTICAL EVALUATION OF SPECIAL ENERGY DISSIPATER CUSHIONS**
Güllü A., Yüksel E., Karadoğan F.
Türkiye Abaqus Kullanıcıları Toplantısı, İstanbul, Turkey, 13 November 2015, pp.1
- XXXI. **Carbon Fibre Reinforced Polymers Used to Retrofit RC Structures**

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Türkiye Prefabrik Birliği Beton Prefabrikasyon Dergisi, Editor, 2015 - Continues

Memberships / Tasks in Scientific Organizations

International Platform for Reducing Earthquake Disaster (IPRED), Member, 2014 - Continues

Scientific Consultations

Türkiye Prefabrik Birliği, Scientific Consultancy, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, Turkey, 2015 - Continues

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