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Education Information

Doctorate, Yıldız Technical University, Faculty Of Civil Engineering, İnşaat Mühendisliği, Turkey 1996 - 2005

Postgraduate, Yıldız Technical University, Faculty Of Civil Engineering, İnşaat Mühendisliği, Turkey 1994 - 1996

Undergraduate, Yıldız Technical University, Faculty Of Civil Engineering, İnşaat Mühendisliği, Turkey 1990 - 1994

Research Areas

Civil Engineering, Structure, Structural Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Civil Engineering, İnşaat Mühendisliği, 2015 - Continues

Courses

Betonarme II, Undergraduate, 2016 - 2017

Advising Theses

Arslan G., Betonarme kırışlerin çelik levhalarla güçlendirilmesinin dayanım değişimine etkisinin araştırılması,
Postgraduate, R.MÜCAHİT(Student), 2018

ARSLAN G., Eriyesiz Polipropilen Lifli Betonarme Kırışlerin Kesme Mukavemeti, Postgraduate, M.ÖZTÜRK(Student),
2016

ARSLAN G., CFRP ile Güçlendirilen Çelik Lifli Betonarme Kırışlerde Dayanım Artışlarının İrdelenmesi, Postgraduate,
K.ŞENGÜN(Student), 2016

ARSLAN G., Çelik lifli betonarme kırışlerin kesme mukavemeti, Postgraduate, M.İrfan(Student), 2016

ARSLAN G., ALACALI S., Betonun kesme mukavemetinin belirlenmesinde kısmi güvenlik katsayısının olasılıksal
yöntemlerle belirlenmesi, Postgraduate, A.Sağiroğlu(Student), 2016

ARSLAN G., Dolgu duvarların betonarme taşıyıcı sistem performansına etkisinin belirlenmesi, Postgraduate, S.MERT(Student), 2015

ARSLAN G., Burulma düzensizliğine sahip betonarme çerçeveli taşıyıcı sistemlerin performansına dolgu duvarların etkisinin belirlenmesi, Postgraduate, Ö.BOZTAŞ(Student), 2015

ARSLAN G., Eriyelik çelik lifli betonarme kırışların kesme mukavemeti, Postgraduate, S.ULUSOY(Student), 2015

ARSLAN G., Eğilme ile güç tükenmesi oluşan betonarme kırışların doğrusal olmayan sonlu eleman çözümlemeleri, Postgraduate, İ.KİRİŞTİOĞLU(Student), 2014

ARSLAN G., Literatürde önerilen betonarme kırış kesme mukavemeti bağıntılarının güvenilirliğinin olasılıksal yöntemlerle irdelenmesi, Postgraduate, A.Osman(Student), 2012

ARSLAN G., Depremde Betonarme Bina Performansının Doğrusal Elastik ve Elastik Olmayan Yöntemler ile Belirlenmesi ve Yöntemlerin Sonuçlarının Karşılaştırılması, Postgraduate, M.ilker(Student), 2012

ARSLAN G., Sismik yalıtımlı betonarme bir köprünün analizi ve performansının değerlendirilmesi, Postgraduate, M. ALTUN(Student), 2012

ARSLAN G., Burulma Düzensizliği İçeren Betonarme Yapıların Doğrusal Elastik Yöntem ile Deprem Performansının Değerlendirilmesi, Postgraduate, K.Şaban(Student), 2011

ARSLAN G., Lifli Polimerle Güçlendirilen Betonarme Kırışların Sonlu Eleman Plastik Çözümlemeleri, Postgraduate, A.Emre(Student), 2011

ARSLAN G., Literatürde Önerilen Enine Donatsız Betonarme Kırış Çatlama Kesme Mukavemeti Bağıntılarının Güvenilirliğinin Olasılıksal Yöntemlerle İrdelenmesi, Postgraduate, A.İBİŞ(Student), 2011

ARSLAN G., Enine Donatsız Betonarme Kırışların Kesme Mukavemeti, Postgraduate, E.GARİP(Student), 2011

ARSLAN G., Betonarme Siloların Projelendirilmesinde Kullanılan Yönetmeliklerin Karşılaştırılması, Postgraduate, C.CEYLAN(Student), 2010

ARSLAN G., Doğrusal Olmayan Sonlu Eleman Çözümlemeleri ile Betonarme Kolonlarda Boyut Etkisinin İrdelenmesi, Postgraduate, M.HACISALİHOĞLU(Student), 2010

ARSLAN G., Depremde Bina Performansının Doğrusal Elastik Olmayan Yöntemler ile Belirlenmesi ve Yöntemlerin Sonuçlarının Karşılaştırılması, Postgraduate, B.ŞAHİN(Student), 2010

ARSLAN G., Çelik Lif Katkılı Öngerilmeli Beton Kırışların Doğrusal Olmayan Sonlu Eleman Çözümlemeleri, Postgraduate, H.HİLMIÖĞLU(Student), 2010

ARSLAN G., Betonarme Kolonların Deneysel Sonuçlarının Doğrusal Olmayan Sonlu Eleman Çözümlemeleri ile Karşılaştırılması, Postgraduate, M.BALCI(Student), 2009

ARSLAN G., Yüksek Mukavemetli Beton Kırışların Eğilme Davranışı, Postgraduate, E.CİHANLI(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Performance of RC Beams Strengthened in Flexure and Shear with CFRP and GFRP**
Sengun K., ARSLAN G.
Iranian Journal of Science and Technology - Transactions of Civil Engineering, vol.48, no.1, pp.117-130, 2024 (SCI-Expanded)
- II. **Evaluation of shear behavior of short-span reinforced concrete deep beams strengthened with fiber reinforced polymer strips**
Akkaya H. C., Aydemir C., ARSLAN G.
Engineering Structures, vol.299, 2024 (SCI-Expanded)
- III. **An experimental and analytical research on moment redistribution in reinforced concrete continuous beams**
AYDOĞAN M. S., Aydemir C., ARSLAN G.
European Journal of Environmental and Civil Engineering, vol.28, no.4, pp.876-899, 2024 (SCI-Expanded)
- IV. **Experimental study on the energy dissipation and seismic behavior of RC columns due to repeated earthquakes including vertical excitation**
Eser Aydemir M., Aydemir C., ARSLAN G.
Engineering Structures, vol.293, 2023 (SCI-Expanded)

- V. **Flexural Behavior of GBFS-Based Geopolymer-Reinforced Concrete Beams**
 Ozturk M., Arslan G.
 BUILDINGS (BASEL), vol.13, no.1, pp.1-14, 2023 (SCI-Expanded)
- VI. **Investigation on shear behavior of reinforced concrete deep beams without shear reinforcement strengthened with fiber reinforced polymers**
 AKKAYA H. C., Aydemir C., ARSLAN G.
 CASE STUDIES IN CONSTRUCTION MATERIALS, vol.17, 2022 (SCI-Expanded)
- VII. **An experimental research on reinforced concrete deep beams fully wrapped with fiber reinforced polymers against shear**
 AKKAYA H. C., Aydemir C., ARSLAN G.
 CASE STUDIES IN CONSTRUCTION MATERIALS, vol.17, 2022 (SCI-Expanded)
- VIII. **Shear Behavior of Granulated Blast Furnace Slag-Based Geopolymer-Reinforced Concrete Beams**
 Ozturk M., Arslan G.
 Buildings, vol.12, no.12, 2022 (SCI-Expanded)
- IX. **Investigation of the parameters affecting the behavior of RC beams strengthened with FRP**
 Sengun K., ARSLAN G.
 FRONTIERS OF STRUCTURAL AND CIVIL ENGINEERING, vol.16, no.6, pp.729-743, 2022 (SCI-Expanded)
- X. **<p>Parameters affecting the behaviour of RC beams strengthened in shear and flexure with various FRP systems</p>**
 Sengun K., ARSLAN G.
 STRUCTURES, vol.40, pp.202-212, 2022 (SCI-Expanded)
- XI. **An Experimental Study on Concrete Contribution to Shear Capacity of RC Beams and Columns under Cyclic Loading**
 Aydemir C., Aydemir M. E., Arslan G.
 TEKNİK DERGİ, vol.33, no.3, pp.11955-11978, 2022 (SCI-Expanded)
- XII. **Shear strength of steel fiber reinforced concrete deep beams without stirrups**
 Birincioğlu M. İ., Keskin R. S. O., Arslan G.
 Advances in Concrete Construction, vol.13, no.1, pp.1-10, 2022 (SCI-Expanded)
- XIII. **Effect of plastic rotation on the concrete contribution to shear strength of RC beams**
 Aydemir C., Aydemir M. E., ARSLAN G.
 ADVANCES IN CONCRETE CONSTRUCTION, vol.11, no.6, pp.469-479, 2021 (SCI-Expanded)
- XIV. **Determining the Reduction Factor in Predicting the Contribution of Concrete to Shear Strength by Using a Probabilistic Method**
 ARSLAN G., ALACALI S., Sagiroglu A.
 Iranian Journal of Science and Technology - Transactions of Civil Engineering, vol.44, no.1, pp.21-28, 2020 (SCI-Expanded)
- XV. **Comparison of displacement capacity of reinforced concrete columns with seismic codes**
 Cansiz S., Aydemir C., ARSLAN G.
 ADVANCES IN CONCRETE CONSTRUCTION, vol.8, no.4, pp.295-304, 2019 (SCI-Expanded)
- XVI. **Influence of polypropylene fibres on the shear strength of RC beams with web reinforcement**
 ARSLAN G., KESKİN R. S. O.
 EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, vol.23, no.10, pp.1222-1234, 2019 (SCI-Expanded)
- XVII. **Shear strength of steel-fibre-reinforced concrete beams with web reinforcement**
 ARSLAN G., Keskin R. S. O., BİRİNCİOĞLU M. İ.
 PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.172, no.4, pp.267-277, 2019 (SCI-Expanded)
- XVIII. **Experimental investigation of bolted stiffened end-plate and bolted flange-plate connections**
 Yilmaz O., Bekiroğlu S., Alemdar F., Arslan G., Sevim B., Ayvaz Y.
 LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES, vol.16, no.3, 2019 (SCI-Expanded)
- XIX. **ASSESSMENT OF THE STRENGTH REDUCTION FACTOR IN PREDICTING THE FLEXURAL STRENGTH**

- ALACALI S., ARSLAN G.
JOURNAL OF THEORETICAL AND APPLIED MECHANICS, vol.56, no.4, pp.1043-1053, 2018 (SCI-Expanded)
- XX. **Performance Evaluation of In-Plan Irregular RC Frame Buildings Based on Turkish Seismic Code**
ARSLAN G., BÖREKÇİ M., Şahin B., Denizer M. I., Duman K. S.
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.16, no.3, pp.323-333, 2018 (SCI-Expanded)
- XXI. **Determination of structural performance of 3D steel pipe rack suspended scaffolding systems**
ARSLAN G., SEVİM B., BEKİROĞLU S.
STRUCTURAL ENGINEERING AND MECHANICS, vol.64, no.5, pp.671-681, 2017 (SCI-Expanded)
- XXII. **Influence of CFRP on the shear strength of RC and SFRC beams**
Keskin R. S. O., ARSLAN G., SENGUN K.
CONSTRUCTION AND BUILDING MATERIALS, vol.153, pp.16-24, 2017 (SCI-Expanded)
- XXIII. **Experimental Evaluation of Tie Bar Effects on The Structural Behavior of Suspended Scaffolding Systems**
SEVİM B., BEKİROĞLU S., ARSLAN G.
International Journal of Advanced Steel Construction, 2017 (SCI-Expanded)
- XXIV. **Shear behaviour of polypropylene fiber-reinforced-concrete beams without stirrups**
ARSLAN G., Keskin R. S. O., OZTURK M.
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.170, no.3, pp.190-198, 2017 (SCI-Expanded)
- XXV. **An experimental study on the shear strength of SFRC beams without stirrups**
ARSLAN G., Keskin R. S. O., ULUSOY S.
Journal of Theoretical and Applied Mechanics (Poland), vol.55, no.4, pp.1205-1217, 2017 (SCI-Expanded)
- XXVI. **A new developed approach for EDL induced from a single concentrated force**
Bekiroğlu S., Arslan G., Sevim B.
STEEL AND COMPOSITE STRUCTURES, vol.21, pp.1105-1119, 2016 (SCI-Expanded)
- XXVII. **Assessing reduction in concrete shear strength contribution**
ARSLAN G., ALACALI S., Sagiroğlu A.
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.169, no.4, pp.237-244, 2016 (SCI-Expanded)
- XXVIII. **An Investigation of the Concrete Contribution to Shear Strength of RC Columns Failing in Flexure**
ARSLAN G., BÖREKÇİ M., BALCI M., HACISALIHOGLU M.
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.14, pp.151-160, 2016 (SCI-Expanded)
- XXIX. **Influence of Displacement Ductility on Concrete Contribution to Shear Strength**
Guray A., IZZET K.
PERIODICA POLYTECHNICA-CIVIL ENGINEERING, vol.60, no.3, pp.379-386, 2016 (SCI-Expanded)
- XXX. **The investigation of the strength reduction factor in prediction the shear strength**
ARSLAN G., ALACALI S., SAGIROGLU A.
JOURNAL OF THEORETICAL AND APPLIED MECHANICS, vol.53, no.2, pp.371-381, 2015 (SCI-Expanded)
- XXXI. **THE INVESTIGATION OF THE STRENGTH REDUCTION FACTOR IN PREDICTING THE SHEAR STRENGTH**
ARSLAN G., Alacali S., Sagiroglu A.
JOURNAL OF THEORETICAL AND APPLIED MECHANICS, vol.53, no.2, pp.371-381, 2015 (SCI-Expanded)
- XXXII. **An investigation on seismic design indicators of RC columns using finite element analyses**
ARSLAN G., Hacisalihoglu M., Balci M., BÖREKÇİ M.
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.12, pp.237-243, 2014 (SCI-Expanded)
- XXXIII. **Shear strength of Steel Fiber Reinforced Concrete (SFRC) slender beams**
Arslan G.
KSCE JOURNAL OF CIVIL ENGINEERING, vol.18, no.2, pp.587-594, 2014 (SCI-Expanded)
- XXXIV. **Reliability Assessment of Existing Equations Predicting the Shear Strength of Reinforced Concrete Beams without Stirrups**
ARSLAN G., Ibis A., ALACALI S.
TEKNİK DERGI, vol.25, no.1, pp.6601-6623, 2014 (SCI-Expanded)

- XXXV. **Shear degradation of reinforced concrete beams**
 ARSLAN G., KIRISTIOGLU I.
 EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, vol.17, no.7, pp.554-563, 2013 (SCI-Expanded)
- XXXVI. **NONLINEAR ANALYSIS OF RC COLUMNS USING THE DRUCKER-PRAGER MODEL**
 ARSLAN G., HACISALIHOGLU M.
 JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, vol.19, no.1, pp.69-77, 2013 (SCI-Expanded)
- XXXVII. **CONTRIBUTION OF CONCRETE TO SHEAR STRENGTH OF RC BEAMS FAILING IN SHEAR**
 ARSLAN G., POLAT Z.
 JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, vol.19, no.3, pp.400-408, 2013 (SCI-Expanded)
- XXXVIII. **DIAGONAL TENSION FAILURE OF RC BEAMS WITHOUT STIRRUPS**
 Arslan G.
 JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, vol.18, no.2, pp.217-226, 2012 (SCI-Expanded)
- XXXIX. **Shear strength of reinforced concrete slender beams**
 Arslan G.
 PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.163, no.3, pp.195-205, 2010 (SCI-Expanded)
- XL. **CURVATURE DUCTILITY PREDICTION OF REINFORCED HIGH-STRENGTH CONCRETE BEAM SECTIONS**
 ARSLAN G., CIHANLI E.
 JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, vol.16, no.4, pp.462-470, 2010 (SCI-Expanded)
- XLI. **CRACKING SHEAR STRENGTH OF RC SLENDER BEAMS WITHOUT STIRRUPS**
 Arslan G.
 JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, vol.14, no.3, pp.177-182, 2008 (SCI-Expanded)
- XLII. **Steel plate contribution to load-carrying capacity of retrofitted RC beams**
 ARSLAN G., Sevük F., Ekiz I.
 CONSTRUCTION AND BUILDING MATERIALS, vol.22, no.3, pp.143-153, 2008 (SCI-Expanded)
- XLIII. **Shear strength of reinforced concrete beams with stirrups**
 Arslan G.
 MATERIALS AND STRUCTURES, vol.41, no.1, pp.113-122, 2008 (SCI-Expanded)
- XLIV. **Sensitivity study of the Drucker-Prager modeling parameters in the prediction of the nonlinear response of reinforced concrete structures**
 Arslan G.
 MATERIALS & DESIGN, vol.28, no.10, pp.2596-2603, 2007 (SCI-Expanded)
- XLV. **Damage analysis of RC beams without web reinforcement**
 Köksal H. O., ARSLAN G.
 MAGAZINE OF CONCRETE RESEARCH, vol.56, no.4, pp.231-241, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Reliability analysis of shear strength equations of RC beams**
 ALACALI S., ARSLAN G., İBİŞ A.
 SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.42, no.1, pp.141-152, 2024 (ESCI)
- II. **Seismic performance of RC columns under combined cyclic flexural and constant axial loadings**
 Aydemir C., Eser Aydemir M., ARSLAN G.
 Structures, vol.54, pp.1196-1208, 2023 (Scopus)
- III. **Drift capacity and allowable axial load level of RC columns**
 Aydemir C., Eser Aydemir M., ARSLAN G.
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- IV. **CFRP contribution to load-carrying capacity of retrofitted geopolymmer concrete beams**
 Ozturk M., Sengun K., Arslan G.

- Structures, vol.48, pp.1391-1402, 2023 (Scopus)
- V. **INFLUENCE OF CFRP ON THE STRENGTH OF RETROFITTED RC BEAMS WITHOUT STIRRUPS**
 SENGUN K., ARSLAN G.
 SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ,
 vol.35, no.1, pp.77-85, 2017 (ESCI)
- VI. **Yüksek Beton Dayanıklı Sargasız Betonarme Kiriş Kesitlerinde Eğrilik Suneğliği**
 CIHANLI E., ARSLAN G.
 Journal of Engineering and Natural Sciences Mühendislik ve Fen Bilimleri Dergisi (SIGMA), pp.139-150, 2009
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- VII. **Journal of Engineering and Natural Sciences Mühendislik ve Fen Bilimleri Dergisi (SIGMA)**
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 pp.67-74, 2006 (Peer-Reviewed Journal)
- VIII. **Yalnız Çekme Donatılı Betonarme Kirişte Sonlu Eleman Boyutunun Yük Taşıma Kapasitesi Tahminine Etkisinin Drucker-Prager ve Çatlak Modelleri ile Karşılaştırılması**
 ARSLAN G.
 Journal of Engineering and Natural Sciences Mühendislik ve Fen Bilimleri Dergisi (SIGMA), pp.34-42, 2004 (Peer-Reviewed Journal)
- IX. **Yüksek Beton Mukavemetli Betonarme Kirişlerde Uygun Sonlu Eleman Boyutları**
 ARSLAN G., POLAT Z.
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Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Change in the Load-Carrying Capacities of RC Beams Strengthened with Steel Plate Glued to Bottom of the Beam**
 Arslan G., Öztürk M., Arabacı R. M.
 First International Symposium on Innovations in Civil Engineering and Technology (1ST I CIVILTECH) , Afyon, Turkey, 23 - 25 October 2019, pp.447-452
- II. **Analysis the Strength Reduction Factor in the Shear Strength of Geopolymer Concrete Beams**
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- III. **Assessing the Shear Strength Reduction Factor in Geopolymer Concrete Beams Without Stirrups**
 ARSLAN G., ALACALI S., Öztürk M.
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- IV. **Investigation of the change in the strength of RC beams strengthened with carbon fiber mesh fabric**
 Arslan G., Gün E., Çevik M.
 4. International Conference on Civil, Environmental, Geology and Mining Engineering, Trabzon, Turkey, 20 - 22 April 2019, pp.411-416
- V. **External U-unwrapping of RC beams with basalt fibre reinforced cement mortar**
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- VI. **Planda düzensizliği bulunan betonarme binaların Türkiye Bina Deprem Yönetmeliği (TBDY) 2018'e göre performanslarının değerlendirilmesi**
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- VII. **Depremde betonarme bina performansının DBYBHY 2007 ve TBDY 2018'e göre değerlendirilmesi**
SOYCAN C., BÖREKÇİ M., ARSLAN G.
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 November 2018, pp.1643-1650
- VIII. **Effect of shear span-to-effective depth ratio on the shear strength of RC beams**
ŞİNİK M., ARSLAN G.
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- IX. **Influence of chopped basalt fibers on the shear strength of RC beams without stirrups**
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- X. **Investigation of the effects of basalt fibers on the flexural strength of RC beams without stirrups**
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- XI. **ALIN LEVHALI BULONLU KOLON-KİRİŞ BİRLEŞİMİNİN ÇEVİRİMSEL YÜKLEME ALTINDA DENEYSEL ÇALIŞMASI**
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- XII. **Retrofitting SFRC Beams by Using CFRP**
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- XIII. **Seismic Performance of a RC School Building Considering Different Soil Classes**
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- XIV. **The behavior of PFRC beams with and without web reinforcement**
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- XV. **Use of Post-tensioned Concrete Slabs for Sustainable Design of Buildings**
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- XVI. **The Effect of Adding Shear Walls to Buildings on Seismic Behavior Considering Different Soil Classes**
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- XVII. **Influence of polypropylene fibers on the shear strength of RC beams without stirrups**
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- XVIII. **Small Scale RC Column Tests**
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- XIX. **Betonarme Kırışlerin Kesme Dayanımında Çelik Liflerin Etkisi**
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- XX. **Influence of flexural reinforcement on the shear strength of RC beams without stirrups**
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- XXI. **Investigation of infill wall effect for the seismic performance of RC structures**
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- XXII. **Influence of steel fibers on the shear strength of RC beams without stirrups**
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