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Education

Postgraduate, Manisa Celal Bayar University, Turkey 2008 - 2010
Undergraduate, Turkey 2004 - 2008

Foreign Languages

English

Dissertations

Doctorate, Farklı kesit boyutlarına sahip beton ve betonarme elemanların çarpma etkisi altında incelenmesi, 2013

Research Areas

Avesis Research Areas: Civil Engineering, Structure
WoS Research Areas: Engineering Civil
Scopus Research Areas: Multidisciplinary, Multidisciplinary

Academic Positions

Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, İnşaat Mühendisliği, 2024 - Present
Associate Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, İnşaat Mühendisliği, 2018 - 2024
Assistant Professor, 2014 - 2018
Research Assistant, 2010 - 2014

Supervised Theses

ERDEM R. T., Performance evaluation of an existing reinforced concrete building by using different strengthening

methods, Postgraduate, U.KAAN(Student), 2025
ERDEM R. T., Farklı sismik izolatör tipleri ile tasarlanan betonarme yapıların davranışlarının incelenmesi, Postgraduate, M.KEMAL(Student), 2024
ERDEM R. T., Mevcut betonarme bir binanın TBDY-2018' e göre deprem performansının incelenmesi ve güçlendirilmesi, Postgraduate, K.KARAL(Student), 2021
ERDEM R. T., Planda ve düşeyde düzensiz mevcut betonarme binaların doğrusal olmayan analizi, Postgraduate, B.UYAN(Student), 2021
ERDEM R. T., Çimento esaslı döküm harçları ile üretilen beton plakların dinamik yükler altında deneysel olarak incelenmesi, Postgraduate, M.BERBEROĞLU(Student), 2019

Articles

I. **TRM-to-concrete interface bond without anchors: Combined experimental, analytical, and numerical modeling approach**
MERCİMEK Ö., ÇALIŞKAN Ö., ANIL Ö., ERDEM R. T., Yüncüler M.
Structural Concrete, vol.27, no.5, pp.6936-6964, 2026 (SCI-Expanded, Scopus)

II. **Design and Structural Analysis of a Precast Industrial Building**
TURALI T., ERDEM R. T., YILMAZ T., ŞENGEL H. S.
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.34, no.2, pp.2266-2277, 2026 (TRDizin)

III. **Seismic Performance Assessment of a Reinforced Concrete School Building**
ŞAHİN S., ERDEM R. T., YILMAZ T., KAMANLI M.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.42, no.2, 2026 (TRDizin)

IV. **Investigation of behavior of two-way RC slab with varying opening size, position and number under repeated impact load**
ANIL Ö., Anıl D., ERDEM R. T., KANTAR E.
Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.48, no.4, 2026 (SCI-Expanded, Scopus)

V. **Strengthening of low performance reinforced concrete beam to column joints against seismic effects with textile reinforced mortar strips**
DOĞAN T. P., Erkan İ. H., ANIL Ö., ERDEM R. T.
Journal of Building Engineering, vol.120, 2026 (SCI-Expanded, Scopus)

VI. **Investigation of the effects of openings on the behavior of one-way RC slab with varied openings size, position, and number and strengthened with CFRP strips**
ÖZDEMİR A., ANIL Ö., KOPRAMAN Y., ERDEM R. T., KAYA N.
Advances in Structural Engineering, 2026 (SCI-Expanded, Scopus)

VII. **Impact behavior of CFRP-strengthened two-way RC slabs with openings: Experimental and numerical study**
Anıl D., ANIL Ö., ERDEM R. T., MERCİMEK Ö.
Journal of Reinforced Plastics and Composites, 2026 (SCI-Expanded, Scopus)

VIII. **Numerical evaluation of prestressed concrete slabs subjected to impact loading**
ERDEM R. T., Yılmaz T., Kamanlı M., Tezcan A. S.
Revista de la Construccion, vol.25, no.1, pp.129-148, 2026 (SCI-Expanded, Scopus)

IX. **Impact Effect on the Behavior of Land and Underwater Pipes**
GÜCÜYEN E., YİĞİT M. E., ERDEM R. T.
JOURNAL OF MARITIME RESEARCH, vol.22, no.3, pp.102-107, 2025 (Scopus)

X. **Performance investigation of a mixed slab building with beam and ribbed slabs**
YÜKSEK B., ERDEM R. T., YILMAZ T., ŞENGEL H. S.
Challenge Journal of Structural Mechanics, vol.11, no.4, pp.215-228, 2025 (Scopus, TRDizin)

XI. **Experimental behavior of shear deficient RC beams strengthened with CFRP strips againts reversible cylic earthquake load**

MERCİMEK Ö., ANIL Ö., AKKAYA S. T., ERDEM R. T., ÇELİK A., KOPRAMAN Y., Abukan A.
Structural Concrete, vol.26, no.5, pp.6424-6447, 2025 (SCI-Expanded, Scopus)

XII. **Seismic failure analysis of TRM-Strengthened Shear-Critical RC beams under hysteretic loading**
MERCİMEK Ö., ANIL Ö., AKKAYA S. T., ERDEM R. T., ÇELİK A., FENER M., Kocaman İ., Karaca M. N.
Engineering Failure Analysis, vol.179, 2025 (SCI-Expanded, Scopus)

XIII. **Coupled Dynamic Modelling of Moored Floating Structure**
GÜCÜYEN E., ERDEM R. T.
JOURNAL OF MARITIME RESEARCH, vol.22, no.1, pp.355-362, 2025 (Scopus)

XIV. **IMPACT LOADING ON RC CANTILEVER BEAM**
ERDEM R. T., GÜCÜYEN E.
Comptes Rendus de L'Academie Bulgare des Sciences, vol.78, no.3, pp.410-418, 2025 (SCI-Expanded, Scopus)

XV. **NUMERICAL INVESTIGATION OF IMPACT LOADS ON RC BEAMS**
Erdem R. T., Gücüyen E.
COMPTES RENDUS DE L ACADEMIE BULGARE DES SCIENCES, vol.78, no.7, pp.1039-1050, 2025 (SCI-Expanded, Scopus)

XVI. **Evaluation of irregular reinforced concrete buildings according to different soil classes**
ERDEM R. T., Uyan B.
Revista de la Construccion, vol.24, no.1, pp.183-195, 2025 (SCI-Expanded, Scopus)

XVII. **A Simulation Study on the Performance of Jacket Type Offshore Structures Using Machine Learning Algorithms**
GÜCÜYEN E., ÖZYÜKSEL ÇİFTÇİOĞLU A., Tuğrul Erdem R.
Journal of Maritime Research, vol.21, no.2, pp.317-325, 2024 (Scopus)

XVIII. **Döşeme Süreksizlikleri Bulunan Mevcut Betonarme Bir Binanın Analizi ve Güçlendirilmesi**
ALTINAY M. K., ERDEM R. T.
Journal of New Results in Engineering and Natural Science, vol.20, pp.1-18, 2024 (Peer-Reviewed Journal)

XIX. **Numerical analyses of underwater pipe sections under falling objects**
GÜCÜYEN E., ERDEM R. T.
Journal of Maritime Research, vol.21, no.1, pp.338-344, 2024 (Scopus)

XX. **Investigation of damaged formwork timber beam retrofitting with anchoraged CFRP strip under different loading**
TÜRER A., ANIL Ö., Cevik A., Tugrul Erdem R. T.
STEEL AND COMPOSITE STRUCTURES, vol.50, no.6, pp.689-703, 2024 (SCI-Expanded, Scopus)

XXI. **Investigation of impact behavior of shear deficient RC beams using nonlinear FEA**
Yılmaz T., ERDEM R. T., Kıshı N., ANIL Ö.
Mechanics Based Design of Structures and Machines, vol.52, no.2, pp.848-866, 2024 (SCI-Expanded, Scopus)

XXII. **MACHINE LEARNING BASED PREDICTION OF COMPRESSIVE STRENGTH IN CONCRETE INCORPORATING SYNHTHETIC FIBERS**
ERDEM R. T., ÖZYÜKSEL ÇİFTÇİOĞLU A., GÜCÜYEN E., KANTAR E.
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.54, no.2, pp.131-139, 2024 (SCI-Expanded, Scopus)

XXIII. **FLUID STRUCTURE INTERACTION ANALYSES OF ELEVATED STORAGE TANK UNDER SEISMIC LOAD**
ERDEM R. T., GÜCÜYEN E.
Comptes Rendus de L'Academie Bulgare des Sciences, vol.77, no.5, pp.725-734, 2024 (SCI-Expanded, Scopus)

XXIV. **Impact Effect on the Existing and Strengthened Reinforced Concrete Columns**
ERDEM R. T., GÜCÜYEN E.
Journal of Design, Architecture and Engineering, 2023 (Peer-Reviewed Journal)

XXV. **Mevcut Betonarme Bir Kamu Binasının Taşıyıcı Sistem Güvenliğinin Araştırılması**
ALTINAY M. K., ERDEM R. T.
Journal of Scientific, Technology and Engineering Research, 2023 (Peer-Reviewed Journal)

XXVI. **Lateral Impact Effect on Circular RC Columns**
ERDEM R. T., GÜCÜYEN E.

Journal of New Results in Engineering and Natural Science, vol.2023, no.18, pp.53-61, 2023 (Peer-Reviewed Journal)

XXVII. **Evaluation of the Mechanism of Impact Test Setup**
ERDEM R. T., GÜCÜYEN E.
Global Journal of Engineering and Technology, vol.2, no.7, pp.29-32, 2023 (Peer-Reviewed Journal)

XXVIII. **Investigation of impact behavior of glulam beam strengthened with CFRP**
Karagöz İşleyen Ü., Ghoroubi R., MERCİMEK Ö., ANIL Ö., Tuğrul Erdem R. T.
STRUCTURES, vol.51, pp.196-214, 2023 (SCI-Expanded, Scopus)

XXIX. **Impact behavior of low strength concrete slab strengthened with fan type anchored carbon fiber-reinforced polymer strips**
ÇALIŞKAN Ö., ARAS M., Yılmaz T., ANIL Ö., ERDEM R. T.
Structural Concrete, vol.24, no.1, pp.1689-1711, 2023 (SCI-Expanded, Scopus)

XXX. **Analyses of damaged effects on jacket type offshore platform**
GÜCÜYEN E., Coşkun S., Tuğrul Erdem R. T.
GRADEVINAR, vol.75, no.7, pp.653-664, 2023 (SCI-Expanded, Scopus)

XXXI. **Investigation of concrete slabs made with cement based mortars under impact loads Ponašanje betonskih ploča od cementnog morta pri udarnom opterećenju**
Tuğrul Erdem R., Berberoğlu M., GÜCÜYEN E.
Gradjevinar, vol.75, no.2, pp.117-127, 2023 (SCI-Expanded, Scopus)

XXXII. **Experimental investigation of impact behaviour of shear deficient RC beam to column connection**
ARAS M., Yılmaz T., ÇALIŞKAN Ö., ANIL Ö., ERDEM R. T., Kaya T.
Structural Engineering and Mechanics, vol.84, no.5, pp.619-632, 2022 (SCI-Expanded, Scopus)

XXXIII. **A Comparative Study on Damaged Behavior of Offshore Jacket Structures**
GÜCÜYEN E., ERDEM R. T.
Journal of New Results in Engineering and Natural Science, vol.15, pp.47-56, 2022 (Peer-Reviewed Journal)

XXXIV. **Impact Analysis of a Concrete Beam via Generative Adversarial Networks**
ERDEM R. T., GÜCÜYEN E., ÖZYÜKSEL ÇİFTÇİOĞLU A., KANTAR E.
International journal of recent engineering science, 2022 (Peer-Reviewed Journal)

XXXV. **Generating Data of an Impact-Loaded Reinforced Concrete Slab via Gans**
ERDEM R. T., GÜCÜYEN E., ÖZYÜKSEL ÇİFTÇİOĞLU A.
Journal of Design Architecture Engineering, vol.2, no.2, pp.123-130, 2022 (Peer-Reviewed Journal)

XXXVI. **Performance evaluation and strengthening of reinforced con-crete buildings**
ERDEM R. T., Karal K.
Revista de la Construccion, vol.21, no.1, pp.53-68, 2022 (SCI-Expanded, Scopus)

XXXVII. **Numerical modelling of floating structure with coupled Eulerian-Lagrangian technique**
GÜCÜYEN E., ERDEM R. T.
Gradjevinar, vol.74, no.10, pp.869-880, 2022 (SCI-Expanded, Scopus)

XXXVIII. **Performance assessment and strengthening proposal of an existing building Ocjena ponašanja i prijedlog pojačanja postojeće građevine**
ERDEM R. T., Karal K.
Gradjevinar, vol.74, no.1, pp.51-61, 2022 (SCI-Expanded, Scopus)

XXXIX. **Experimental and numerical investigation of timber formwork beam under different loading type**
Dönmez T. Ü., TÜRER A., ANIL Ö., ERDEM R. T.
Mechanics Based Design of Structures and Machines, vol.50, no.3, pp.1090-1110, 2022 (SCI-Expanded, Scopus)

XL. **Experimental and numerical investigation of impact behavior of RC slab with different opening size and layout**
Yılmaz T., ANIL Ö., Tuğrul Erdem R. T.
STRUCTURES, vol.35, pp.818-832, 2022 (SCI-Expanded, Scopus)

XLI. **Komşu Katlar Arası Rijitlik Düzensizliği Bulunan Betonarme Binaların Deprem Performansının Araştırılması**
UYAN B., ERDEM R. T.

ALKÜ Fen Bilimleri Dergisi, vol.3, no.2, pp.42-54, 2021 (Peer-Reviewed Journal)

XLII. **Estimation of impact characteristics of RC slabs under sudden loading**
ERDEM R. T.
Computers and Concrete, vol.28, no.5, pp.479-486, 2021 (SCI-Expanded, Scopus)

XLIII. **Behavior of glulam timber beam strengthened with carbon fiber reinforced polymer strip for flexural loading**
İşleyen Ü. K., Ghoroubi R., MERCİMEK Ö., ANIL Ö., ERDEM R. T.
Journal of Reinforced Plastics and Composites, vol.40, no.17-18, pp.665-685, 2021 (SCI-Expanded, Scopus)

XLIV. **Experimental and numerical study of fiber reinforced concrete beams in four-point bending**
Tuğrul Erdem R. T.
CEMENT WAPNO BETON, vol.26, no.5, pp.431-443, 2021 (SCI-Expanded, Scopus)

XLV. **Investigation of impact behavior of reinforced concrete beam to column connection strengthened with carbon fiber-reinforced polymer strips**
Kaya T., ARAS M., Yilmaz T., ÇALIŞKAN Ö., ANIL Ö., ERDEM R. T.
Structural Concrete, vol.22, no.4, pp.1977-2010, 2021 (SCI-Expanded, Scopus)

XLVI. **Effect of anchorage number and CFRP strips length on behavior of strengthened glulam timber beam for flexural loading**
İşleyen Ü. K., Ghoroubi R., MERCİMEK Ö., ANIL Ö., TOĞAY A., Erdem R. T.
ADVANCES IN STRUCTURAL ENGINEERING, vol.24, no.9, pp.1869-1882, 2021 (SCI-Expanded, Scopus)

XLVII. **Dynamic responses of reinforced concrete slabs under sudden impact loading**
ERDEM R. T.
Revista de la Construccion, vol.20, no.2, pp.346-358, 2021 (SCI-Expanded, Scopus)

XLVIII. **PREDICTION OF IMPACT RESULTS ON CEMENT BASED MORTAR SLABS**
Tuğrul Erdem R. T., Berberoğlu M.
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.51, no.3, pp.405-413, 2021 (SCI-Expanded, Scopus)

XLIX. **Experimental and numerical investigation of steel sections under impact effect Eksperimentalno i numeričko istraživanje čeličnih profila pri udarnom opterećenju Experimentelle und numerische Untersuchung von Stahlprofilen unter Stoßbelastung**
GÜCÜYEN E., KANTAR E., ERDEM R. T., Alicioglu M. B.
Gradjevinar, vol.73, no.1, pp.45-56, 2021 (SCI-Expanded, Scopus)

L. **Experimental and numerical investigation of impact behavior of reinforced concrete slab with different support conditions**
Yılmaz T., Kıraç N., ANIL Ö., ERDEM R. T., Hoşkal V.
Structural Concrete, vol.21, no.6, pp.2689-2707, 2020 (SCI-Expanded, Scopus)

LI. **Impact behaviour of nanomodified deflection-hardening fibre-reinforced concretes**
Demirhan S., Yildirim G., Banyhussan Q. S., Koca K., ANIL Ö., ERDEM R. T., ŞAHMARAN M.
MAGAZINE OF CONCRETE RESEARCH, vol.72, no.17, pp.865-887, 2020 (SCI-Expanded, Scopus)

LII. **Performance of engineered cementitious composites under drop-weight impact: Effect of different mixture parameters**
Yıldırım G., Khiavi F. E., ANIL Ö., ŞAHİN O., ŞAHMARAN M., ERDEM R. T.
Structural Concrete, vol.21, no.3, pp.1051-1070, 2020 (SCI-Expanded, Scopus)

LIII. **Estimating Fluid Parameters of Submarine Outfall Using Neural Networks**
GÜCÜYEN E., ERDEM R. T.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.11, no.2, pp.889-898, 2020 (TRDizin)

LIV. **Experimental Investigation of Impact Behaviour of RC Slab with Different Reinforcement Ratios**
Yılmaz T., Kıraç N., ANIL Ö., ERDEM R. T., Kaçaran G.
KSCE Journal of Civil Engineering, vol.24, no.1, pp.241-254, 2020 (SCI-Expanded, Scopus)

LV. **Comparative analysis of tripod offshore structure**
GÜCÜYEN E., YİĞİT M. E., Tugrul Erdem R. T., Gökkuş Ü.
GRADEVINAR, vol.72, no.11, pp.1021-1030, 2020 (SCI-Expanded, Scopus)

LVI. **Experimental study on hollow section joints under impact loading**
ERDEM R. T., KANTAR E., GÜCÜYEN E., Alycyoolu B.
Gradjevinar, vol.72, no.5, pp.401-410, 2020 (SCI-Expanded, Scopus)

LVII. **Impact resistance of deflection-hardening fiber reinforced concretes with different mixture parameters**
Banyhussan Q. S., Yıldırım G., ANIL Ö., ERDEM R. T., Ashour A., ŞAHMARAN M.
Structural Concrete, vol.20, no.3, pp.1036-1050, 2019 (SCI-Expanded, Scopus)

LVIII. **Kompozit deniz yapısının dalga kuvvetleri altında incelenmesi**
GÜCÜYEN E., ERDEM R. T.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.10, no.3, pp.1125-1136, 2019 (TRDizin)

LIX. **NUMERICAL MODELLING OF SUDDEN CONTRACTION IN PIPE FLOW**
GÜCÜYEN E., ERDEM R. T., Gökkuş Ü.
Sigma Journal of Engineering and Natural Sciences, vol.37, no.3, pp.903-916, 2019 (Scopus)

LX. **BETON KAZIKLI AÇIK DENİZ YAPISININ ANALİZİ**
GÜCÜYEN E., ERDEM R. T.
SELCUK UNIVERSITY JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY, vol.6, no.4, pp.767-778, 2018 (TRDizin)

LXI. **Low-velocity impact behaviour of two way RC slab strengthening with CFRP strips**
Yılmaz T., Kıraç N., ANIL Ö., ERDEM R. T., Sezer C.
Construction and Building Materials, vol.186, pp.1046-1063, 2018 (SCI-Expanded, Scopus)

LXII. **Investigation of lateral impact behavior of RC columns**
ANIL Ö., Tuğrul Erdem R. T., TOKGÖZ M. A.
COMPUTERS AND CONCRETE, vol.22, no.1, pp.123-132, 2018 (SCI-Expanded, Scopus)

LXIII. **Experimental study on pipe sections against impact loading**
GÜCÜYEN E., ERDEM R. T., KANTAR E.
TEM Journal, vol.7, no.1, pp.97-104, 2018 (Scopus)

LXIV. **Kompozit Boru Kesitlerinin Çarpma Etkisi Altında Deneysel ve Nümerik Olarak İncelenmesi**
GÜCÜYEN E., ERDEM R. T., KANTAR E.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.30, no.1, pp.139-149, 2018 (TRDizin)

LXV. **Non-linear analysis of reinforced concrete slabs under impact effect**
ERDEM R. T., GÜCÜYEN E.
Gradjevinar, vol.69, no.6, pp.479-487, 2017 (SCI-Expanded, Scopus)

LXVI. **Experimental and numerical investigation of reinforced concrete beams with variable material properties under impact loading**
ANIL Ö., Durucan C., ERDEM R. T., Yorgancilar M. A.
Construction and Building Materials, vol.125, pp.94-104, 2016 (SCI-Expanded, Scopus)

LXVII. **Açık deniz uzay kafes sistemin çevresel yükler altında akışkan yapı etkileşimli analizi**
GÜCÜYEN E., ERDEM R. T.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.7, no.3, pp.433-444, 2016 (TRDizin)

LXVIII. **ESTIMATION OF COMPRESSIVE STRENGTH OF CEMENT MORTARS**
ERDEM R. T., ÖZTÜRK A., GÜCÜYEN E.
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.46, no.3, pp.313-318, 2016 (SCI-Expanded, Scopus)

LXIX. **Performance evaluation of reinforced concrete buildings with softer ground floors**
ERDEM R. T.
GRADEVINAR, vol.68, no.1, pp.39-49, 2016 (SCI-Expanded, Scopus)

LXX. **INFLUENCE OF THE AIR-ENTRAINING ADMIXTURE WITH DIFFERENT SUPERPLASTICIZERS ON THE FREEZE-THAW RESISTANCE OF CEMENT MORTARS**
ÖZTÜRK A., ERDEM R. T.
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.46, no.1, pp.75-81, 2016 (SCI-Expanded, Scopus)

LXXI. **Fsi analysis of submarine outfall**
GÜCÜYEN E., ERDEM R. T., Gökkuş Ü.
Brodogradnja, vol.67, no.2, pp.67-80, 2016 (SCI-Expanded, Scopus)

LXXII. **Improving the impact behavior of pipes using geofoam layer for protection**
ANIL Ö., ERDEM R. T., KANTAR E.
International Journal of Pressure Vessels and Piping, vol.132-133, pp.52-64, 2015 (SCI-Expanded, Scopus)

LXXIII. **Non-linear performance analysis of existing and concentric braced steel structures**
Tuğrul Erdem R. T.
STEEL AND COMPOSITE STRUCTURES, vol.19, no.1, pp.59-74, 2015 (SCI-Expanded, Scopus)

LXXIV. **Analysis of guyed steel lattice mast subjected to environmental loads**
ERDEM R. T.
GRADEVINAR, vol.67, no.7, pp.681-689, 2015 (SCI-Expanded, Scopus)

LXXV. **Impact effect on different sized reinforced concrete specimens**
ERDEM R. T., GÜCÜYEN E., KANTAR E., Bağcı M.
Indian Journal of Engineering and Materials Sciences, vol.22, no.5, pp.597-603, 2015 (SCI-Expanded, Scopus)

LXXVI. **Prediction of acceleration and impact force values of a reinforced concrete slab**
ERDEM R. T.
COMPUTERS AND CONCRETE, vol.14, no.5, pp.563-575, 2014 (SCI-Expanded, Scopus)

LXXVII. **Corrosion effects on structural behaviour of jacket type offshore structures**
GÜCÜYEN E., ERDEM R. T.
Gradjevinar, vol.66, no.11, pp.981-986, 2014 (SCI-Expanded, Scopus)

LXXVIII. **Impact behaviour of concrete beams**
ERDEM R. T., GÜCÜYEN E., KANTAR E., Bagci M.
GRADEVINAR, vol.66, no.6, pp.523-531, 2014 (SCI-Expanded, Scopus)

LXXIX. **Estimation of compression strength of polypropylene fibre reinforced concrete using artificial neural networks**
Eredm R. T., KANTAR E., GÜCÜYEN E., ANIL Ö.
COMPUTERS AND CONCRETE, vol.12, no.5, pp.613-625, 2013 (SCI-Expanded, Scopus)

LXXX. **Numerical analysis on corrosion resistance of mild steel structures**
ERDEM R. T., Seker S., ÖZTÜRK A. U., GÜCÜYEN E.
Engineering with Computers, vol.29, no.4, pp.529-533, 2013 (SCI-Expanded, Scopus)

LXXXI. **Evaluation of blast-induced ground vibration effects in a new residential zone**
Dogan O., ANIL Ö., AKBAŞ S. O., KANTAR E., Tuğrul Erdem R. T.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.50, pp.168-181, 2013 (SCI-Expanded, Scopus)

LXXXII. **Irregular Wave Effects on Dynamic Behavior of Piles**
GÜCÜYEN E., ERDEM R. T., Gökkuş Ü.
Arabian Journal for Science and Engineering, vol.38, no.5, pp.1047-1057, 2013 (SCI-Expanded, Scopus)

LXXXIII. **Determination of the impact behavior of concrete and reinforced concrete beams**
GÜCÜYEN E., ERDEM R. T., KANTAR E., Bağci M.
Mathematical and Computational Applications, vol.18, no.3, pp.502-510, 2013 (Scopus, TRDizin)

LXXXIV. **Early age corrosion of mild steel in aggressive media**
ÖZTÜRK A., GÜCÜYEN E., ERDEM R. T., Seker S.
Materials Science, vol.48, no.2, pp.219-224, 2012 (SCI-Expanded, Scopus)

LXXXV. **Investigation of Crushing Type of Concrete Aggregates on Mechanical Properties of Concrete**
ÖZTÜRK A. U., ERDEM R. T., KOZANOĞLU C., KOZANOĞLU C.
International Journal of Materials Engineering, 2012 (Peer-Reviewed Journal)

LXXXVI. **Mermer Tozu Katkısının Çimento Harcı Donma Çözünme Özellikleri Üzerine Etkisi**
ERDEM R. T., ÖZTÜRK A. U.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.1, no.2, pp.85-91, 2012 (Peer-Reviewed Journal)

LXXXVII. **A comparative evaluation of performance based analysis procedures according to 2007 Turkish Earthquake Code and FEMA-440**

ERDEM R. T., Bağci M., DEMİR A.
Mathematical and Computational Applications, vol.16, no.3, pp.605-616, 2011 (Scopus, TRDizin)

LXXXVIII. **Betonarme Bir Yapının Performansa Dayalı Tasarımı Deplasmana Dayalı Sismik Yaklaşım ve Yerdeğiştirme Katsayıları Yöntemi**
TEKİN M., ERDEM R. T., GÜNDÜZ C.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.7, no.2, pp.1-11, 2011 (Peer-Reviewed Journal)

LXXXIX. **Nonlinear finite element analysis of impact behavior of concrete beam**
KANTAR E., ERDEM R. T., ANIL Ö.
Mathematical and Computational Applications, vol.16, no.1, pp.183-193, 2011 (Scopus, TRDizin)

XC. **Effect of Changes on Joint Connections of Steel Lattice Towers due to Environmental Loads**
GÜCÜYEN E., ERDEM R. T., GÖKKUŞ Ü.
International Journal of Engineering and Industries, vol.2, no.1, pp.30-36, 2011 (Peer-Reviewed Journal)

XCI. **TORSIONAL IRREGULARITY EFFECTS OF LOCAL SITE CLASSES IN MULTIPLE STOREY STRUCTURES**
DEMİR A., DÖNMEZ DEMİR D., ERDEM R. T., BAĞCI M.
International Journal of Research and Reviews in Applied Sciences, vol.4, no.3, pp.258-262, 2010 (Peer-Reviewed Journal)

Books

I. **İzmir (Seferihisar-Sisam) Depreminin Sismik Karakteristiği ve Meydana Gelen Yapısal Hasarların İncelenmesi**
Demir A., Özyüksel Çiftçioğlu A., Sınır B. G., Başarı E., Doğan E., Nohutcu H., Bozkurt M. B., Erdem R. T., Altıok T. Y.
MCBU, Manisa, 2020

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Impact Response of a RC Beam without Rebound Effects**
ERDEM R. T., GÜCÜYEN E.
2nd International Conference on Applied Engineering and Natural Sciences ICAENS 2022, Turkey, 10 March 2022, (Full Text)

II. **Fluid Structure Interaction Analysis of Offshore Platform**
GÜCÜYEN E., ERDEM R. T.
1. International Hasankeyf Scientific Research and Innovation Congress, 06 November 2021, (Summary Text)

III. **Numerical Analysis of the Offshore Pile**
GÜCÜYEN E., ERDEM R. T.
1st International Conference on Applied Engineering and Natural Sciences, 01 November 2021, (Summary Text)

IV. **Numerical Simulation Of Pipe SectionsSubjected To Impact Loading**
ERDEM R. T., GÜCÜYEN E., KANTAR E.
3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018, (Summary Text)

V. **Prediction Of Compressive Strength Values Of Concrete For Different Steel Fiber Ratios**
ERDEM R. T., KANTAR E., GÜCÜYEN E.
3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018, (Summary Text)

VI. **Static Analysis Under The Effect Of Solar Panels**
GÜCÜYEN E., ERDEM R. T., KANTAR E.
3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018, (Summary Text)

VII. **Structural Analysis Of Pipeline Conveying Fluid**
GÜCÜYEN E., KANTAR E., ERDEM R. T.
3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018, (Summary Text)

VIII. **INVESTIGATION OF IMPACT EFFECT ON A REINFORCED CONCRETE SLAB**

ERDEM R. T., GÜCÜYEN E., KANTAR E.
12. International Congress On Advances In Civil Engineering, 21 - 23 September 2016, (Summary Text)

IX. **Analysis of Reinforced Concrete Beam Under Impact Loading**
ERDEM R. T., GÜCÜYEN E., KANTAR E.
The 3rd International Symposium on Computing in Science & Engineering (ISCSE), Faculty of Engineering, Gediz University, Kusadasi, Aydin, 24 - 25 October 2013, (Full Text)

X. **Determination of Earthquake Safety of A Masonry and Reinforced Concrete Composite Structure**
DEMİR A., BAĞCI M., ERDEM R. T., BAŞARAN H.
Fourth International Conference on Mathematical and Computational Applications, Manisa, Turkey, 11 - 13 June 2013, pp.167-176, (Full Text)

XI. **Effect of micro-ct slice intensity on natural vibration behavior of cancellous bone models based on reverse engineering techniques**
ALTINTAŞ G., ERDEM R. T.
1st World Conference on Innovation and Software Development (INSODE), İstanbul, Turkey, 2 - 10 October 2011, vol.1, pp.318-322, (Full Text)

XII. **Effect of Location Changing of Superstructure Masses on Natural Vibration Behaviour in Offshore Jacket Type Structures**
ERDEM R. T., ALTINTAŞ G., GÜCÜYEN E.
2nd World Conference on Information Technology, Antalya, Turkey, 23 - 27 November 2011, pp.118, (Summary Text)

XIII. **Dynamic Analysis of Marine Outfall Diffusers under External and Internal Flows**
GÜCÜYEN E., ERDEM R. T., ARSLAN B., GÖKKUŞ Ü.
2nd World Conference on Information Technology, Antalya, Turkey, 23 - 27 November 2011, pp.35, (Summary Text)

XIV. **Dynamic Analysis of a Singular Steel Pile due to Wave Loads**
GÜCÜYEN E., ERDEM R. T., ŞEKER S., GÖKKUŞ Ü.
2nd International Symposium on Computing in Science & Engineering, Aydın, Turkey, 1 June - 04 November 2011, pp.735-741, (Full Text)

XV. **Değişken Kesitli Deniz Deşarj Difüzörlerinin İç ve Dış Akış Etkisinde Dinamik Analizi**
YİĞİT M. E., GÜCÜYEN E., ERDEM R. T., KARATAŞ Ö., GÖKKUŞ Ü.
7. Kıyı Mühendisliği Sempozyumu, Trabzon, Turkey, 21 - 23 November 2011, vol.1, pp.567-576, (Full Text)

XVI. **Artificial Neural Networks Analysis of Reinforced Concrete Sections According to Curvature Ductility**
ERDEM R. T., ŞEKER S., GÜCÜYEN E., BAĞCI M.
2nd International Symposium on Computing in Science & Engineering, Aydın, Turkey, 1 - 04 June 2011, pp.672-679, (Full Text)

XVII. **Performance Evaluation of a Reinforced Concrete Structure According to Turkish Earthquake Code 2007 and FEMA 356**
BAĞCI M., ERDEM R. T., DEMİR A.
2nd International Symposium on Computing in Science & Engineering, Aydın, Turkey, 1 - 04 June 2011, pp.648-654, (Full Text)

XVIII. **Analysis of Reinforced Concrete Structures Under the Effect of Various Surface Accelerations**
KANTAR E., ERDEM R. T., ANIL Ö., AKBAŞ S. O.
2nd International Symposium on Computing in Science & Engineering, Aydın, Turkey, 1 - 04 June 2011, pp.655-661, (Full Text)

XIX. **A Comparative Assessment of Existing Building by Turkish Earthquake Code ATC 40 FEMA 356 FEMA 440**
ERDEM R. T., DEMİR A., BAĞCI M., KANTAR E.
9th International Congress on Advances in Civil Engineering, Karadeniz Technical University, Trabzon, Turkey, 27 - 30 September 2010, (Full Text)

XX. **Structural Solutions By Spreadsheet**
DEMİR A., ERDEM R. T., BAĞCI M.

The 1st International Symposium on Computing in Science & Engineering, Aydın, Turkey, 3 - 05 June 2010, vol.1, pp.875-882, (Full Text)

XXI. **Performance Evaluation Of An Existing Concrete Frame System**
ERDEM R. T., DEMİR A., BAĞCI M.
The 1st International Symposium on Computing in Science & Engineering, Aydın, Turkey, 3 - 05 June 2010, vol.1, pp.857-865, (Full Text)

XXII. **Nonlinear Finite Element Analysis of Impact Behaviour of Concrete Beam**
KANTAR E., ERDEM R. T., ANIL Ö.
1st International Symposium on Computing in Science & Engineering, Aydın, Turkey, 3 - 05 June 2010, pp.892-898, (Full Text)

Funded Projects

ERDEM R. T., GÜCÜYEN E., ALICIOĞLU M. B., KANTAR E., Project Supported by Higher Education Institutions, Kusurlu Çelik Birleşimlerin Darbe Etkisi Altında İncelenmesi, 2018 - 2019

YURDUSEV M. A., ERDEM R. T., ERGÜT A., ERZİN Y., TURAN M. E., KANTAR E., GÜCÜYEN E., ÇETİN T., BOZKURT M. B., Project Supported by Higher Education Institutions, BAP Infrastructure, Laboratuvar Uygulamalarının İnşaat Mühendisliği Eğitimine Katkısının Değerlendirilmesi, 2017 - 2019

GÜCÜYEN E., ERDEM R. T., Project Supported by Other Private Institutions, Yeni Yapılacak Betonarme Binaların Taşıyıcı Sistem Düzensizliklerinin Belirlenmesi ve Statik Projelerinin Hazırlanması, 2016 - 2017

GÜCÜYEN E., ERDEM R. T., KANTAR E., Project Supported by Higher Education Institutions, Yerüstü Boru Hatlarında Dinamik Kuvvetlerin Oluşturduğu Etkilerin Deneysel Olarak İncelenmesi, 2016 - 2017

KOZANOĞLU C., ERDEM R. T., Project Supported by Higher Education Institutions, BAP Other, Değişik Boyutlardaki Beton ve Betonarme Kesitlerin Üretilmesi ve Beton Basınç Dayanımlarının Belirlenmesi, 2012 - 2012

ERGÜT A., PULAT H. F., ERDEM R. T., ÖZTÜRK A. U., Project Supported by Higher Education Institutions, Farklı Tip Biyopolimerlerin Çimento Esaslı Yapı Malzemelerinin Dayanım ve Dayanıklılık Özelliklerine Etkilerinin İncelenmesi, 2011 - 2013

ERGÜT A., ERDEM R. T., GÜCÜYEN E., KANTAR E., Project Supported by Higher Education Institutions, Farklı Kesit ve Boyutlardaki Beton ve Betonarme Elemanların Çarpma Etkisi Altında Davranışlarının İncelenmesi, 2011 - 2013

DEMİR A., ERDEM R. T., BAĞCI M., Project Supported by Higher Education Institutions, Türkiye de Kullanılan Ticari Yapı Analiz Paket Programları İle Mevcut Betonarme Yapılarının Değerlendirilmesi, 2010 - 2012

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