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Education Information

- I. Doctorate, Texas A&M University, Civil Engineering, United States Of America 2010 - 2014
- II. Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Engineering Sciences, Turkey 1991 - 1993
- III. Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1987 - 1991

Dissertations

- I. Doctorate, Wave propagation in single- and double-porosity deformable porous media saturated by multiphase fluids, Texas A&M University, Civil Engineering, 1995
- II. Postgraduate, Improved transmitting boundaries by the use of the residual variable method, Orta Doğu Teknik Üniversitesi, Faculty of Engineering, Department of Engineering Sciences, 1993

Research Areas

Mechanical, Structure

Academic Titles / Tasks

- I. Professor, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2014 - Continues
- II. Professor, Atilim University, Faculty Of Engineering, Department Of Civil Engineering, 2013 - 2014
- III. Professor, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2009 - 2013
- IV. Associate Professor, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2007 - 2009
- V. Associate Professor, Indiana University Bloomington, Arts And Sciences, Chemistry, 2002 - 2007
- VI. Assistant Professor, Universiteit Utrecht, Earth Sciences, Hydrogeology, 2002 - 2002
- VII. Assistant Professor, Indiana University Bloomington, Arts And Sciences, Chemistry, 2001 - 2001
- VIII. Research Assistant, Indiana University Bloomington, Arts And Sciences, Chemistry, 1996 - 2001
- IX. Assistant Professor, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Civil Engineering, 1995 - 1996
- X. Research Assistant, Texas A&M University, Engineering, Civil Engineering, 1993 - 1995
- XI. Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Engineering Sciences, 1992 - 1993

Academic and Administrative Experience

- I. Member of the Senate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2022 - Continues
- II. Fakülte Kurulu Üyesi, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2018 - Continues
- III. Middle East Technical University, Odtu Kuzey Kıbrıs Kampusu (Kktc-Güzelyurt), İnşaat Mühendisliği Bölümü, 2007 - 2009

Advising Theses

- I. TUNCAY K., Numerical modelling of reinforced concrete pressure tunnels using the overlapping lattice method, Postgraduate, G.Işık(Student), 2019
- II. TÜYDEŞ YAMAN H., TUNCAY K., DETECTING QUEUE LENGTH ON URBAN ARTERIALS USING FLOATING CAR DATA (FCD), Doctorate, O.ALTINTAŞI(Student), 2018
- III. TUNCAY K., Explicit nonlinear analysis for quasi-static behavior of frame structures with pid control and mass scaling, Postgraduate, K.KOCAMAZ(Student), 2018
- IV. TUNCAY K., BİNİCİ B., Overlapping lattice modeling for concrete fracture simulations using sequentially linear analysis, Postgraduate, B.BESTAMİ(Student), 2017

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

- I. **Lattice modeling and testing of aerated autoclaved concrete infilled frames**
AYDIN B. B. , BİNİCİ B., Hendriks M. A. N. , TUNCAY K.
ENGINEERING STRUCTURES, vol.251, 2022 (Journal Indexed in SCI)
- II. **Identifying buildings with high collapse risk based on samos earthquake damage inventory in Izmir**
BİNİCİ B., YAKUT A., CANBAY E., Akpınar U., TUNCAY K.
BULLETIN OF EARTHQUAKE ENGINEERING, 2022 (Journal Indexed in SCI)
- III. **Numerical modeling of the tension stiffening in reinforced concrete members via discontinuum models**
Pulatsu B., Erdogmus E., Lourenco P. B. , Lemos J., TUNCAY K.
COMPUTATIONAL PARTICLE MECHANICS, vol.8, no.3, pp.423-436, 2021 (Journal Indexed in SCI)
- IV. **Lattice simulation of concrete compressive behaviour as indirect tension failure**
AYDIN B. B. , BİNİCİ B., TUNCAY K.
MAGAZINE OF CONCRETE RESEARCH, vol.73, no.8, pp.394-409, 2021 (Journal Indexed in SCI)
- V. **An approximate procedure for estimating the member demands in mid-rise reinforced concrete buildings**
Akpınar U., BİNİCİ B., YAKUT A., TUNCAY K.
Bulletin of Earthquake Engineering, vol.18, no.15, pp.6715-6734, 2020 (Journal Indexed in SCI)
- VI. **Simulation of the in-plane structural behavior of unreinforced masonry walls and buildings using DEM**
Pulatsu B., Erdogmus E., Lourenço P. B. , Lemos J. V. , TUNCAY K.
Structures, vol.27, pp.2274-2287, 2020 (Journal Indexed in SCI)
- VII. **Transmission dynamics of Covid-19 in Italy, Germany and Turkey considering social distancing, testing and quarantine**
GÜL S., TUNCAY K., BİNİCİ B., AYDIN B. B.
JOURNAL OF INFECTION IN DEVELOPING COUNTRIES, vol.14, no.7, pp.713-720, 2020 (Journal Indexed in SCI)

- VIII. **Quality of floating car data (FCD) as a surrogate measure for urban arterial speed**
Altintasi O., Tüydeş Yaman H., Tuncay K.
CANADIAN JOURNAL OF CIVIL ENGINEERING, vol.46, pp.1187-1198, 2019 (Journal Indexed in SCI)
- IX. **Simulation of Reinforced Concrete Member Response Using Lattice Model**
Aydın B. B. , Tuncay K., Binici B.
JOURNAL OF STRUCTURAL ENGINEERING, vol.145, 2019 (Journal Indexed in SCI)
- X. **Overlapping Lattice Modeling for concrete fracture simulations using sequentially linear analysis**
Aydın B. B. , Tuncay K., Binici B.
STRUCTURAL CONCRETE, vol.19, pp.568-581, 2018 (Journal Indexed in SCI)
- XI. **Near-Optimal Design of Scalable Energy Harvester for Underwater Pipeline Monitoring Applications With Consideration of Impact to Pipeline Performance**
Qureshi F. U. , Muhtaroglu A., TUNCAY K.
IEEE SENSORS JOURNAL, vol.17, no.7, pp.1981-1991, 2017 (Journal Indexed in SCI)
- XII. **Strength of various sands in triaxial and cyclic direct shear tests**
ÇABALAR A. F. , Dulundu K., TUNCAY K.
ENGINEERING GEOLOGY, vol.156, pp.92-102, 2013 (Journal Indexed in SCI)
- XIII. **Field measurements and modeling of groundwater flow and biogeochemistry at Moses Hammock, a backbarrier island on the Georgia coast**
Porubsky W. P. , Joye S. B. , Moore W. S. , TUNCAY K., Meile C.
BIOGEOCHEMISTRY, vol.104, pp.69-90, 2011 (Journal Indexed in SCI)
- XIV. **Modeling biogeochemical dynamics in porous media: Practical considerations of pore scale variability, reaction networks, and microbial population dynamics in a sandy aquifer**
King E. L. , TUNCAY K., Ortoleva P., Meile C.
JOURNAL OF CONTAMINANT HYDROLOGY, vol.112, pp.130-140, 2010 (Journal Indexed in SCI)
- XV. **In Silico Geobacter sulfurreducens Metabolism and Its Representation in Reactive Transport Models**
King E. L. , TUNCAY K., Ortoleva P., Meile C.
APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.75, no.1, pp.83-92, 2009 (Journal Indexed in SCI)
- XVI. **Flow and nutrient dynamics in a subterranean estuary (Waquoit Bay, MA, USA): Field data and reactive transport modeling**
Spiteri C., Slomp C. P. , Charette M. A. , TUNCAY K., Meile C.
GEOCHIMICA ET COSMOCHIMICA ACTA, vol.72, no.14, pp.3398-3412, 2008 (Journal Indexed in SCI)
- XVII. **Modeling biogeochemical processes in subterranean estuaries: Effect of flow dynamics and redox conditions on submarine groundwater discharge of nutrients**
Spiteri C., Slomp C. P. , TUNCAY K., Meile C.
WATER RESOURCES RESEARCH, vol.44, no.2, 2008 (Journal Indexed in SCI)
- XVIII. **Chromosome segregation in Escherichia coli division: A free energy-driven string model**
Fan J., Tuncay K., Ortoleva P. J.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.31, no.4, pp.257-264, 2007 (Journal Indexed in SCI)
- XIX. **Closure to "landfill settlement with decomposition and gas generation" by Ertan Durmusoglu, M. Yavuz Corapcioglu, and Kagan Tuncay**
Durmusoglu E., Corapcioglu M. Y. , Tuncay K.
JOURNAL OF ENVIRONMENTAL ENGINEERING-ASCE, vol.133, no.7, pp.785, 2007 (Journal Indexed in SCI)
- XX. **Cancer onset and progression: A genome-wide, nonlinear dynamical systems perspective on onconetworks**
Qu K., Haidar A. A. , Fan J., Ensmann L., Tuncay K., Jolly M., Ortoleva P.
JOURNAL OF THEORETICAL BIOLOGY, vol.246, no.2, pp.234-244, 2007 (Journal Indexed in SCI)
- XXI. **Transcriptional regulatory network discovery via multiple method integration: application to e. coli K12**
Sun J., Tuncay K., Haidar A. A. , Ensmann L., Stanley F., Trelinski M., Ortoleva P.
ALGORITHMS FOR MOLECULAR BIOLOGY, vol.2, 2007 (Journal Indexed in SCI)
- XXII. **Transcriptional regulatory network refinement and quantification through kinetic modeling, gene**

expression microarray data and information theory

Sayyed-Ahmad A., Tuncay K., Ortoleva P. J.

BMC BIOINFORMATICS, vol.8, 2007 (Journal Indexed in SCI)

- XXIII. **Time domain Gauss-Newton seismic waveform inversion in elastic media**
Sheen D., Tuncay K., Baag C., Ortoleva P. J.
GEOPHYSICAL JOURNAL INTERNATIONAL, vol.167, no.3, pp.1373-1384, 2006 (Journal Indexed in SCI)
- XXIV. **Parallel implementation of a velocity-stress staggered-grid finite-difference method for 2-D poroelastic wave propagation**
Sheen D., Tuncay K., Baag C., Ortoleva P. J.
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- XXV. **Modeling of settlement in saturated and unsaturated municipal landfills**
Durmusoglu E., Corapcioglu M., Tuncay K.
International Journal of Geomechanics, vol.6, no.4, pp.269-278, 2006 (Journal Indexed in SCI)
- XXVI. **GCLgrid: A three-dimensional geographical curvilinear grid library for computational seismology**
Fan C., Pavlis G., Tuncay K.
COMPUTERS & GEOSCIENCES, vol.32, no.3, pp.371-381, 2006 (Journal Indexed in SCI)
- XXVII. **Scale dependence of reaction rates in porous media**
Meile C., Tuncay K.
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- XXVIII. **Landfill settlement with decomposition and gas generation**
Durmusoglu E., Corapcioglu M., Tuncay K.
JOURNAL OF ENVIRONMENTAL ENGINEERING, vol.131, no.9, pp.1311-1321, 2005 (Journal Indexed in SCI)
- XXIX. **Solute-specific pore water irrigation: Implications for chemical cycling in early diagenesis**
Meile C., Berg P., Van Cappellen P., Tuncay K.
JOURNAL OF MARINE RESEARCH, vol.63, no.3, pp.601-621, 2005 (Journal Indexed in SCI)
- XXX. **Efficient solution technique for solving the Poisson-Boltzmann equation**
Sayyed-Ahmad A., Tuncay K., Ortoleva P.
JOURNAL OF COMPUTATIONAL CHEMISTRY, vol.25, no.8, pp.1068-1074, 2004 (Journal Indexed in SCI)
- XXXI. **Quantitative basin modeling: present state and future developments towards predictability**
Tuncay K., Ortoleva P.
GEOFLUIDS, vol.4, no.1, pp.23-39, 2004 (Journal Indexed in SCI)
- XXXII. **Classical density functional theory of orientational order at interfaces: Application to water**
Jaqaman K., Tuncay K., Ortoleva P.
JOURNAL OF CHEMICAL PHYSICS, vol.120, no.2, pp.926-938, 2004 (Journal Indexed in SCI)
- XXXIII. **Estimating tectonic history through basin simulation-enhanced seismic inversion: geoinformatics for sedimentary basins**
Tandon K., Tuncay K., Hubbard K., Comer J., Ortoleva P.
GEOPHYSICAL JOURNAL INTERNATIONAL, vol.156, no.1, pp.129-139, 2004 (Journal Indexed in SCI)
- XXXIV. **Toward automated cell model development through information theory**
Sayyed-Ahmad A., Tuncay K., Ortoleva P.
JOURNAL OF PHYSICAL CHEMISTRY A, vol.107, no.49, pp.10554-10565, 2003 (Journal Indexed in SCI)
- XXXV. **Interplay of gouge, fluid pressure and porosity in fault zones**
Tuncay K., Ozkan G., Ortoleva P.
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- XXXVI. **Explicit representation of spatial heterogeneity in reactive transport models: application to bioirrigated sediments**
Meile C., Tuncay K., Van Cappellen P.
JOURNAL OF GEOCHEMICAL EXPLORATION, pp.231-234, 2003 (Journal Indexed in SCI)
- XXXVII. **The Karyote® Physico-Chemical Genomic, Proteomic, Metabolic Cell Modeling System**
Ortoleva P., Berry E., Brun Y., Fan J., Fontus M., Hubbard K., Jaqaman K., Jarymowycz L., Navid A., Sayyed-Ahmad A., et al.

- OMICS A Journal of Integrative Biology, vol.7, no.3, pp.269-283, 2003 (Journal Indexed in SCI Expanded)
- XXXVIII. **Pits, outgrowths, and inclusions as coated grain kinetic instabilities**
Tuncay K., Puckett J., Al-Shaeib Z., Ortoleva P.
GEOCHIMICA ET COSMOCHIMICA ACTA, vol.66, no.22, pp.3901-3912, 2002 (Journal Indexed in SCI)
- XXXIX. **Failure, memory, and cyclic fault movement**
Tuncay K., Khalil A., Ortoleva P.
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.91, no.3, pp.538-552, 2001 (Journal Indexed in SCI)
- XL. **Salt tectonics as a self-organizing process: A reaction, transport, and mechanics model**
Tuncay K., Ortoleva P.
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.106, pp.803-817, 2001 (Journal Indexed in SCI)
- XLI. **Sedimentary basin deformation: an incremental stress approach**
Tuncay K., Park A., Ortoleva P.
TECTONOPHYSICS, vol.323, pp.77-104, 2000 (Journal Indexed in SCI)
- XLII. **A forward model of three-dimensional fracture orientation and characteristics**
Tuncay K., Park A., Ortoleva P.
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.105, pp.16719-16735, 2000 (Journal Indexed in SCI)
- XLIII. **A reaction-transport-mechanical approach to modeling the interrelationships among gas generation, overpressuring, and fracturing: Implications for the Upper Cretaceous natural gas reservoirs of the Piceance basin, Colorado**
Payne D., Tuncay K., Park A., Comer J., Ortoleva P.
AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS, vol.84, no.4, pp.545-565, 2000 (Journal Indexed in SCI)
- XLIV. **Electrophoretic repair of impoundment leaks: Analysis and verification with experimental data**
Corapcioglu M., Kambham K., Tuncay K.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.32, no.23, pp.3778-3784, 1998 (Journal Indexed in SCI)
- XLV. **Self-weight subsidence of saturated soft porous media**
Tuncay K., Kambham K., Corapcioglu M.
JOURNAL OF ENGINEERING MECHANICS-ASCE, vol.124, no.6, pp.630-638, 1998 (Journal Indexed in SCI)
- XLVI. **Wave propagation in poroelastic media saturated by two fluids**
Tuncay K., Corapcioglu M.
JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME, vol.64, no.2, pp.313-320, 1997 (Journal Indexed in SCI)
- XLVII. **Dynamics of submerged shells of arbitrary geometry using improved transmitting boundaries**
Akkas N., Tuncay K.
COMPUTERS & STRUCTURES, vol.63, no.4, pp.827-835, 1997 (Journal Indexed in SCI)
- XLVIII. **Body waves in poroelastic media saturated by two immiscible fluids**
Tuncay K., Corapcioglu M.
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.101, pp.25149-25159, 1996 (Journal Indexed in SCI)
- XLIX. **Consolidation of elastic porous media saturated by two immiscible fluids**
Tuncay K., Corapcioglu M.
JOURNAL OF ENGINEERING MECHANICS, vol.122, no.11, pp.1077-1085, 1996 (Journal Indexed in SCI)
- L. **Body waves in fractured porous media saturated by two immiscible Newtonian fluids**
Tuncay K., Corapcioglu M.
TRANSPORT IN POROUS MEDIA, vol.23, no.3, pp.259-273, 1996 (Journal Indexed in SCI)
- LI. **Wave propagation in fractured porous media**
Tuncay K., Corapcioglu M.
TRANSPORT IN POROUS MEDIA, vol.23, no.3, pp.237-258, 1996 (Journal Indexed in SCI)
- LII. **Oil mound spreading and migration with ambient groundwater flow in coarse porous media**
Corapcioglu M., Tuncay K., Ceylan B.
WATER RESOURCES RESEARCH, vol.32, no.5, pp.1299-1308, 1996 (Journal Indexed in SCI)
- LIII. **Effective stress principle for saturated fractured porous media**

- Tuncay K., Corapcioglu M.
WATER RESOURCES RESEARCH, vol.31, no.12, pp.3103-3106, 1995 (Journal Indexed in SCI)
- LIV. **A SEMIANALYTICAL ANALYSIS OF COMPRESSIBLE ELECTROPHORETIC CAKE FORMATION**
KAMBHAM K., TUNCAY K., CORAPCIOGLU M.
WATER RESOURCES RESEARCH, vol.31, no.5, pp.1421-1428, 1995 (Journal Indexed in SCI)
- LV. **ANALYTICAL EXPRESSIONS TO ESTIMATE THE FREE PRODUCT RECOVERY IN OIL-CONTAMINATED AQUIFERS**
CORAPCIOGLU M., TUNCAY K., LINGAM R., KAMBHAM K.
WATER RESOURCES RESEARCH, vol.30, no.12, pp.3301-3311, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Sensitivity analysis for piezoelectric energy harvester and bluff body design toward underwater pipeline monitoring**
Qureshi F. U. Q. , Muhtaroglu A., Tuncay K.
Journal of Energy Systems, vol.1, no.1, pp.10-20, 2017 (International Refereed University Journal)
- II. **Transcriptional regulatory networks via gene ontology and expression data**
Tuncay K., Ensmann L., Sun J., Haidar A. A. , Stanley F., Trelinski M., Ortoleva P.
In Silico Biology, vol.7, no.1, pp.21-34, 2007 (Refereed Journals of Other Institutions)
- III. **Efficient finite difference calculation of partial derivative seismic wavefield using reciprocity and convolution**
Sheen D., Tuncay K., Baag C., Ortoleva P. J.
SEG Technical Program Expanded Abstracts, vol.23, no.1, pp.1850-1853, 2004 (Refereed Journals of Other Institutions)
- IV. **Wave propagation in poroelastic media: A velocity-stress staggered-grid finite-difference method with perfectly matched layers**
Sheen D., Tuncay K., Baag C., Ortoleva P. J.
SEG Technical Program Expanded Abstracts, vol.22, no.1, pp.2295-2298, 2003 (Refereed Journals of Other Institutions)
- V. **Chapter 5 Propagation of waves in porous media**
Corapcioglu M. Y. , Tuncay K.
Advances in Porous Media, vol.3, pp.361-440, 1996 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Monitoring Urban Traffic from Floating Car Data (FCD): Using Speed or a Los-Based State Measure**
ALTINTAŞI O., TÜYDEŞ YAMAN H., TUNCAY K.
in: Directions of Development of Transport Networks and Traffic Engineering, Macioszek E., Sierpiński G., Editor, Springer, Cham, pp.163-173, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Strut and Tie Topology for Reinforced Concrete Elements**
Işıklı Y., Binici B., Tuncay K.
14th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İstanbul, Turkey, 6 - 08 September 2021, vol.1, pp.1111-1116
- II. **On Strategies Improving Accuracy of Speed Prediction from Floating Car Data (FCD)**

Tüydeş Yaman H., Kocamaz K., Tuncay K., Çınar B.

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- III. **Prediction of Nonlinear Drift Demands for Buildings with Recurrent Neural Networks**
Kocamaz K., Binici B., Tuncay K.
14th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, 6 - 08 September 2021, vol.1, pp.1287-1294
- IV. **SHALLOW FOUNDATION ANALYSIS BY SMOOTHED PARTICLE HYDRODYNAMICS METHOD**
Emren V., Tuncay K.
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- V. **Seismic Assessment of Mid-Rise Reinforced Concrete Buildings by Using a Modified Stiffness Approach**
BİNİCİ B., AKPINAR U., YAKUT A., TUNCA Y. K.
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- VI. **LATTICE APPROACH FOR NONLINEAR ANALYSIS FOR REINFORCED CONCRETE FRAMES**
AYDIN B. B. , TUNCA Y. K., BİNİCİ B.
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- VII. **A two-step procedure for seismic assessment of mid-rise reinforced concrete buildings**
Uğur A., BİNİCİ B., YAKUT A., TUNCA Y. K., Cenikli S.
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- VIII. **ANALYSES OF DAM – RESERVOIR SYSTEMS USING THE COUPLED MODIFIED APPLIED – FINITE ELEMENT METHODS**
Soysal B. F. , Tuncay K., Arıcı Y.
5. International Conference on Earthquake Engineering and Seismology, Ankara, Turkey, 8 - 11 October 2019
- IX. **EVALUATING QUALITY AND PENETRATION RATE RELATION FOR COMMERCIALY AVAILABLE FLOATING CAR DATA (FCD)**
ALTINTAŞI O., TÜYDEŞ YAMAN H., TUNCA Y. K.
TRB 2019 Annual Meeting, Washington, Kiribati, 13 - 17 January 2019
- X. **Overlapping Lattice Approach for Nonlinear Analysis of Reinforced Concrete Columns**
AYDIN B. B. , TUNCA Y. K., BİNİCİ B.
13th International Congress on Advances in Civil Engineering, İzmir, Turkey, 12 - 14 September 2018
- XI. **Numerical Modeling of Reinforced Concrete Pressure Tunnels Using the Overlapping Lattice Method**
Işık G., Kalaycıoğlu M., Albostan U., CANBAY E., ARICI Y., BİNİCİ B., TUNCA Y. K.
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- XII. **Experimental Studies on Reinforced Concrete Pressure Tunnels**
Kalaycıoğlu M., Albostan U., Işık G., CANBAY E., ARICI Y., BİNİCİ B., TUNCA Y. K.
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- XIII. **Traffic Flow Characteristics of an Urban Arterial Based on Different Traffic Flow Models**
ALTINTAŞI O., TÜYDEŞ YAMAN H., TUNCA Y. K.
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- XIV. **Comparison of the Overlapping Lattice and the Finite Element Approaches for the Prediction of the Collapse State of Concrete Gravity Dams**
Soysal Albostan B. F. , Arıcı Y., Binici B., Tuncay K.
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- XV. **MASIF BETON YAPILARDA HASAR İLERLEMESİ SIMULASYONU, ÖRTÜŞMELİ KAFES MODELİ VE SONLU ELEMENLAR YAKLAŞIMLARI KARŞILAŞTIRMASI**
SOYSAL B. F. , ARICI Y., BİNİCİ B., TUNCA Y. K.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 October 2017
- XVI. **SIMULATION OF DAMAGE PROPAGATION ON MASSIVE CONCRETE STRUCTURES, THE OVERLAPPING LATTICE MODEL VS. THE FINITE ELEMENT APPROACH**

- SOYSAL B. F. , ARICI Y., BİNİCİ B., TUNCAY K.
4th International Conference on Earthquake Engineering and Seismology, Eskişehir, Turkey, 11 - 13 October 2017
- XVII. **COMPARISON OF THE OVERLAPPING LATTICE AND THEFINITE ELEMENT APPROACHES FOR THE PREDICTION OF THE COLLAPSE STATE OF CONCRETE GRAVITY DAMS**
SOYSAL B. F. , ARICI Y., BİNİCİ B., TUNCAY K.
4th International Conference on Earthquake Engineering and Seismology, Eskişehir, Turkey, 11 - 13 October 2017
- XVIII. **EXPLICIT DYNAMIC ANALYSIS OF A REINFORCED CONCRETE FRAME UP TO COLLAPSE**
KOCAMAZ K., TUNCAY K., BİNİCİ B.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 October 2017
- XIX. **Explicit Dynamic Analysis of a Reinforced Concrete Frame up to Collapse**
KOCAMAZ K., TUNCAY K., BİNİCİ B.
4th International Conference on Earthquake Engineering and Seismology, Eskişehir, Turkey, 11 October - 13 November 2017
- XX. **BETON AĞIRLIK BARAJLARININ GOÇME DURUMLARININ BELIRLENMESINDE ORTUŞMELI KAFES VE SONLU ELEMEN YAKLAŞIMLARININ KARŞILAŞTIRILMASI**
SOYSAL B. F. , ARICI Y., BİNİCİ B., TUNCAY K.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 October 2017
- XXI. **Overlapping Lattice Simulation of Concrete Gravity Dam Collapse Simulations**
SOYSAL B. F. , AYDIN B. B. , TUNCAY K., ARICI Y., BİNİCİ B.
COMPDYN 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, 15 - 17 June 2017
- XXII. **Three-Dimensional Finite Element Modeling for Spudcan Penetration into a Clayey Seabed**
Emren V., Huvaj Sarihan N., Tuncay K.
3rd Conference on Geotechnical Frontiers, Florida, United States Of America, 12 - 15 March 2017, pp.122-131
- XXIII. **Üç Boyutlu Sonlu Elemanlar Yöntemi ile Açık Deniz Platform Temellerinin Killi Zemine Penetrasyonu**
Emren V., Huvaj Sarihan N., Tuncay K.
Zemin Mekaniği ve Geoteknik Mühendisliği 16. Ulusal Kongresi, Erzurum, Turkey, 13 - 14 October 2016
- XXIV. **Üç Boyutlu Sonlu Elemanlar Yöntemi ile Açık Deniz Platform Temellerinin Killi Zemine Penetrasyonu**
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