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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, Turkey 1976 - 1982

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1974 - 1976

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1970 - 1974

Dissertations

Doctorate, Yığma duvarların deprem davranışı, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 1982

Postgraduate, Betonarme Çerçevelerin Deprem Davranışı, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1976

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1978 - Continues

Advising Theses

ERBERİK M. A., SUCUOĞLU H., ENERGY BASED SEISMIC ASSESSMENT AND DESIGN, Doctorate, F.SONER(Student), 2019

SUCUOĞLU H., Inelastic Seismic Response Analysis and Design of Torsionally Coupled Systems, Doctorate,

K.KAATSIZ(Student), 2019

SUCUOĞLU H., YILMAZ M. T., An investigation of seismic face stability of deep tunnels by using an axisymmetric finite element model, Postgraduate, H.ELIZABETH(Student), 2018

SUCUOĞLU H., KURÇ Ö., A comparative study on nonlinear modeling of structural walls, Postgraduate, S.EREN(Student), 2018

SUCUOĞLU H., Performance based seismic design of reinforced concrete tall buildings, Postgraduate, E.BUDAK(Student), 2015

SUCUOĞLU H., A general evaluation of linear elastic assessment procedures in seismic codes, Postgraduate, U.ÖZÇAMUR(Student), 2014

SUCUOĞLU H., A linear modal combination procedure for structural dynamics, Postgraduate, S.TANIŞER(Student), 2013

BİNİCİ B., SUCUOĞLU H., Modelling effects of insufficient lap splices on a deficient reinforced concrete frame, Postgraduate, W.WEI(Student), 2013

SUCUOĞLU H., Linear modal combination procedure for structural dynamics, Postgraduate, S.Tanişer(Student), 2013

SUCUOĞLU H., Generalized pushover analysis, Postgraduate, F.SONER(Student), 2012

SUCUOĞLU H., Generalized pushover analysis for unsymmetrical plan buildings, Postgraduate, K.KAATSIZ(Student), 2012

SUCUOĞLU H., A nonlinear equivalent frame model for displacement based analysis of unreinforced brick masonry buildings, Postgraduate, İ.OZAN(Student), 2010

SUCUOĞLU H., Displacement-based seismic rehabilitation of non-ductile RC frames with added shear walls, Postgraduate, C.KARAGEYİK(Student), 2010

ERBERİK M. A., SUCUOĞLU H., Energy based seismic performance assessment of reinforced concrete columns, Doctorate, B.ACUN(Student), 2010

SUCUOĞLU H., An equivalent linearization procedure for seismic response prediction of MDOF systems, Doctorate, M.SELİM(Student), 2008

SUCUOĞLU H., Quantitative evaluation of assessment methods in the 2007 Turkish earthquake code, Postgraduate, A.ŞENGÖZ(Student), 2007

SUCUOĞLU H., Dynamic pull analysis for estimating seismic response, Postgraduate, C.DEĞİRMENCİ(Student), 2006

SUCUOĞLU H., A comparative assessment of an existing reinforced concrete building by using different seismic rehabilitation codes and procedures, Postgraduate, İ.ÖZTÜRK(Student), 2006

SUCUOĞLU H., Performance evaluation of existing medium rise reinforced concrete buildings according to 2006 Turkish Seismic Rehabilitation Code, Postgraduate, Z.DÜZCE(Student), 2006

ÇETİN K. Ö., SUCUOĞLU H., Effects of soil structure interaction and base isolated systems on seismic performance of foundation soils, Postgraduate, S.SOYÖZ(Student), 2004

SUCUOĞLU H., Simplified procedures for seismic assessment of medium rise reinforced concrete building structures, Postgraduate, M.SELİM(Student), 2003

SUCUOĞLU H., Seismic evaluation of school buildings after the 12 November 1999 Düzce earthquake., Postgraduate, H.AYDIN(Student), 2002

SUCUOĞLU H., Seismic performance assessment of a residential building in Düzce during the 12 November 1999 Düzce Earthquake., Postgraduate, S.Bayılı(Student), 2002

SUCUOĞLU H., Assessment of seismic retrofitting by life cycle costing method, Postgraduate, G.MACİT(Student), 2002

SUCUOĞLU H., Seismic performance assessment of a residential building in Düzce during the 12 November 1999 Düzce earthquake, Postgraduate, S.BAYILI(Student), 2002

SUCUOĞLU H., Cost comparison of clay brick and AAC masonry walls employed in seismic resistant masonry and reinforced concrete building construction., Postgraduate, H.Burak(Student), 2001

SUCUOĞLU H., Cost comparison of clay brick and AAC masonry walls employed in seismic resistant masonry and reinforced concrete building construction, Postgraduate, H.BURAK(Student), 2001

SUCUOĞLU H., Energy based seismic evaluation of degrading systems, Doctorate, M.ALTUĞ(Student), 2001

POLAT U., SUCUOĞLU H., Development of a uniaxial shaking table and a data acquisition system, Postgraduate, A.Korucu(Student), 1999

SUCUOĞLU H., Capacity evaluation of damaged and repaired structures, Postgraduate, T.GÜR(Student), 1999

SUCUOĞLU H., A methodology for the seismic damage assessment of low-rise reinforced concrete buildings, Postgraduate, K.Omane(Student), 1998

SUCUOĞLU H., A Methodology for the seismic damage assesment of low-rise reinforced concrete buildings, Postgraduate, K.OMAGE(Student), 1998

SUCUOĞLU H., Performance and cost evaluation of reinforced concrete buildings designed according to 1975 and 1997 Turkish Seismic Design Codos, Postgraduate, M.HAKAN(Student), 1998

SUCUOĞLU H., Performance and cost evaluation of reinforced concrete buildings designed according to 1975 and 1997 Turkish Seismic Design Codes, Postgraduate, M.Hakan(Student), 1998

SUCUOĞLU H., Controlling the seismic behaviour of exterior reinforced concrete frame joints with relocated beam plastic

hinges, Postgraduate, E.Başaran(Student), 1997
SUCUOĞLU H., Inelastic dynamic response analysis of an instrumented R/C building located on the on the North Anatolian fault, Postgraduate, M.Onur(Student), 1995
SUCUOĞLU H., Influence of earthquake ground motion characteristics on structural damage and seismic response reduction, Postgraduate, M.AL TUĞ(Student), 1995
SUCUOĞLU H., Inelastic dynamic response analysis of an instrumented R/C building located on the North Anatolian fault, Postgraduate, M.ONUR(Student), 1995
SUCUOĞLU H., Characteristics of earthquake ground motions, Postgraduate, A.NUR TUĞ(Student), 1994
SUCUOĞLU H., Characteristics of earthquake ground motions, Postgraduate, A.Nurtuğ(Student), 1994
SUCUOĞLU H., The Effect of connection characteristics on the inelastic seismic behavior of precast frames, Postgraduate, A.YUSUF(Student), 1992
SUCUOĞLU H., An Interactive computer program to generate in elastic response spectra, Postgraduate, A.ŞAHİN(Student), 1991
SUCUOĞLU H., Seismic shear strenght of reinforced masonry piers, Postgraduate, N.SHİRALİ(Student), 1989
SUCUOĞLU H., An Approximate method for the nonlinear seismic analysis of soil layers, Postgraduate, E.MELTEM(Student), 1989
SUCUOĞLU H., Seismic shear strenght of reinforced masonry piers, Postgraduate, N.Mohammad(Student), 1989
SUCUOĞLU H., Inelastic spectral analysis of structural systems under seismic excitation, Postgraduate, M.DİCLELİ(Student), 1989
SUCUOĞLU H., Nonlinear collapse analysis of frame-wall structures, Postgraduate, H.TULUNAY(Student), 1989
SUCUOĞLU H., Analysis of lateral-torsional coupled building with base isolation, Postgraduate, I.Can(Student), 1988
SUCUOĞLU H., Analysis of lateral-torsional coupled buildings with base isolation, Postgraduate, İ.CAN(Student), 1988
SUCUOĞLU H., Nonlinear seismic response of horizontally layered soil deposits, Postgraduate, A.MAHMOUD(Student), 1987

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Sharing data and code facilitates reproducible and impactful research**
Baker J. W., Crowley H., Wald D., Rathje E., Au S., Bradley B. A., Burton H., Cabas A., Cattari S., Cauzzi C., et al.
Earthquake Spectra, vol.40, no.3, pp.2210-2218, 2024 (SCI-Expanded)
- II. **A critical assessment of the design displacements of friction pendulum systems**
Alıcı F. S., SUCUOĞLU H., Özçamur U.
Soil Dynamics and Earthquake Engineering, vol.177, 2024 (SCI-Expanded)
- III. **Identification of Torsionally Stiff and Flexible Asymmetric Systems, and Their Comparative Seismic Response Evaluation for Low-Rise Frames**
Kaatsız K., SUCUOĞLU H.
Journal of Earthquake Engineering, vol.28, no.4, pp.998-1014, 2024 (SCI-Expanded)
- IV. **Seismic performance assessment of base isolation systems in five hospitals during the Mw7.8 and Mw7.6 2023 earthquakes in Southeast Turkey**
Kaatsız K., Alıcı F. S., SUCUOĞLU H., Tanışer S., Kale Ö.
Earthquake Spectra, 2024 (SCI-Expanded)
- V. **Vibration-based temporary monitoring of a 253 m tall skew-plan building in Istanbul**
Çelik O. C., Budak E., Sucuoğlu H.
EARTHQUAKE SPECTRA, vol.39, no.4, pp.2042-2070, 2023 (SCI-Expanded)
- VI. **Response parameters that control the service, safety and collapse performances of a 253 m tall concrete core wall building in Istanbul**
Budak E., Sucuoğlu H., Çelik O. C.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.21, no.1, pp.375-395, 2023 (SCI-Expanded)
- VII. **Interstory drift based scaling of bi-directional ground motions**
SUCUOĞLU H., Eren N., Pinho R.

- EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.51, no.15, pp.3620-3638, 2022 (SCI-Expanded)
- VIII. **Performance of structures in Izmir after the Samos island earthquake**
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- IX. **Development of Fragility Curves for Single-Column RC Italian Bridges Using Nonlinear Static Analysis**
Perdomo C., Monteiro R., SUCUOĞLU H.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.26, no.5, pp.2328-2352, 2022 (SCI-Expanded)
- X. **Interstory drift based scaling of earthquake ground motions**
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EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.50, no.14, pp.3814-3830, 2021 (SCI-Expanded)
- XI. **Torsional ductility spectrum for predicting ductility distribution in simple asymmetric-plan structures**
SUCUOĞLU H., Kaatsiz K.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.50, no.2, pp.538-559, 2021 (SCI-Expanded)
- XII. **Damping spectra for estimating inelastic deformations from modal response spectrum analysis**
SUCUOĞLU H., Alici F. S.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.50, no.2, pp.436-454, 2021 (SCI-Expanded)
- XIII. **The role of overstrength on the seismic performance of asymmetric-plan structures**
KAATSIZ K., SUCUOĞLU H.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.48, no.4, pp.412-431, 2019 (SCI-Expanded)
- XIV. **Elastic and Inelastic Near-Fault Input Energy Spectra**
Alici F. S., SUCUOĞLU H.
EARTHQUAKE SPECTRA, vol.34, no.2, pp.611-637, 2018 (SCI-Expanded)
- XV. **Generalized force vectors for multi-mode pushover analysis of bridges**
Perdomo C., Monteiro R., SUCUOĞLU H.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.12, pp.5247-5280, 2017 (SCI-Expanded)
- XVI. **Prediction of input energy spectrum: attenuation models and velocity spectrum scaling**
Alici F. S., SUCUOĞLU H.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.45, no.13, pp.2137-2161, 2016 (SCI-Expanded)
- XVII. **Limitations on linear elastic procedures in performance assessment of regular frames**
SUCUOĞLU H., Ozcamur U.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.44, no.15, pp.2659-2675, 2015 (SCI-Expanded)
- XVIII. **Practical Implementation of Generalized Force Vectors for the Multimodal Pushover Analysis of Building Structures**
Alici F. S., SUCUOĞLU H.
EARTHQUAKE SPECTRA, vol.31, no.2, pp.1043-1067, 2015 (SCI-Expanded)
- XIX. **Seismic Risk Prioritization and Retrofit Cost Evaluation of Code-Deficient RC Public Buildings in Turkey**
SUCUOĞLU H., YAKUT A., Ozmen A., Kubin J.
EARTHQUAKE SPECTRA, vol.31, no.1, pp.601-614, 2015 (SCI-Expanded)
- XX. **Seismic performance of gravity-load designed concrete frames infilled with low-strength masonry**
Siddiqui U. A., SUCUOĞLU H., YAKUT A.
EARTHQUAKES AND STRUCTURES, vol.8, no.1, pp.19-35, 2015 (SCI-Expanded)
- XXI. **Generalized force vectors for multi-mode pushover analysis of torsionally coupled systems**
KAATSIZ K., SUCUOĞLU H.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.43, no.13, pp.2015-2033, 2014 (SCI-Expanded)
- XXII. **Pseudo-Dynamic Testing, Performance Assessment, and Modeling of Deficient Reinforced Concrete Frames**
SUCUOĞLU H., Lin W. W., Binici B., Ezzatfar P.
ACI STRUCTURAL JOURNAL, vol.111, no.5, pp.1203-1212, 2014 (SCI-Expanded)

- XXIII. **Pseudo-Dynamic Testing and Analytical Modeling of AAC Infilled RC Frames**
SUCUOĞLU H., Siddiqui U. A.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.18, no.8, pp.1281-1301, 2014 (SCI-Expanded)
- XXIV. **Implications of Masonry Infill and Partition Damage in Performance Perception in Residential Buildings after a Moderate Earthquake**
SUCUOĞLU H.
EARTHQUAKE SPECTRA, vol.29, no.2, pp.661-667, 2013 (SCI-Expanded)
- XXV. **Seismic Performance Assessment of Unreinforced Masonry Buildings with a Hybrid Modeling Approach**
Aldemir A., ERBERİK M. A., Demirel I. O., SUCUOĞLU H.
EARTHQUAKE SPECTRA, vol.29, no.1, pp.33-57, 2013 (SCI-Expanded)
- XXVI. **Seismic risk prioritization of residential buildings in Istanbul**
YAKUT A., SUCUOĞLU H., Akkar S.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.41, no.11, pp.1533-1547, 2012 (SCI-Expanded)
- XXVII. **Energy Dissipation Capacity of Reinforced Concrete Columns under Cyclic Displacements**
Acun B., SUCUOĞLU H.
ACI STRUCTURAL JOURNAL, vol.109, no.4, pp.531-540, 2012 (SCI-Expanded)
- XXVIII. **Energy-Based Hysteresis Model for Flexural Response of Reinforced Concrete Columns**
SUCUOĞLU H., Acun B.
ACI STRUCTURAL JOURNAL, vol.109, no.4, pp.541-549, 2012 (SCI-Expanded)
- XXIX. **Inelastic Displacement Response of RC Systems with Cyclic Deterioration-An Energy Approach**
ERBERİK M. A., SUCUOĞLU H., Acun B.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.16, no.7, pp.937-962, 2012 (SCI-Expanded)
- XXX. **Evaluation of the Performance Limit States of Reinforced Concrete Columns in View of Experimental Observations**
Acun B., SUCUOĞLU H.
TEKNIK DERGI, vol.22, pp.5523-5541, 2011 (SCI-Expanded)
- XXXI. **Generalized force vectors for multi-mode pushover analysis**
SUCUOĞLU H., Gunay M. S.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.40, no.1, pp.55-74, 2011 (SCI-Expanded)
- XXXII. **A Displacement-Based Approach for the Seismic Retrofitting of Medium Rise Non-Ductile RC Frames with Added Shear Walls**
SUCUOĞLU H., Karageyik C.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.15, no.6, pp.959-969, 2011 (SCI-Expanded)
- XXXIII. **An improvement to linear-elastic procedures for seismic performance assessment**
Gunay M. S., SUCUOĞLU H.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.39, no.8, pp.907-931, 2010 (SCI-Expanded)
- XXXIV. **Performance of Reinforced Concrete Columns Designed for Flexure under Severe Displacement Cycles**
Acun B., SUCUOĞLU H.
ACI STRUCTURAL JOURNAL, vol.107, no.3, pp.364-371, 2010 (SCI-Expanded)
- XXXV. **Pros And Cons of Assessment Methods in the 2007 Turkish Earthquake Code**
Şenboz A., SUCUOĞLU H.
Teknik Dergi, vol.20, pp.4609-4633, 2009 (SCI-Expanded)
- XXXVI. **Predicting the Seismic Response of Capacity-Designed Structures by Equivalent Linearization**
Guenay M. S., SUCUOĞLU H.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.13, no.5, pp.623-649, 2009 (SCI-Expanded)
- XXXVII. **Enhancement of the national strong-motion network in Turkey**
Gulkan P., Ceken U., Colakoglu Z., Ugras T., Kuru T., Apak A., Anderson J. G., Sucuoglu H., Celebi M., Akkar D. S., et al.
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- XXXVIII. **A screening procedure for seismic risk assessment in urban building stocks**

- Sucuoglu H., Yazgan U., Yakut A.
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Akkar S., Sucuoglu H., Yakut A.
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- XL. **Performance-based seismic rehabilitation of damaged reinforced concrete buildings**
Sucuoglu H., Gur T., Gunay M.
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- XLI. **Seismic energy dissipation in deteriorating systems through low-cycle fatigue**
Erberik A., Sucuoglu H.
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- XLII. **Energy-based hysteresis and damage models for deteriorating systems**
Sucuoglu H., Erberik A.
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- XLIII. **Predicting intensity and damage distribution during the 1995 Dinar, Turkey, earthquake with generated strong motion accelerograms**
Sucuoglu H., Anderson J., Zeng Y.
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- XLIV. **Engineering characteristics of the near-field strong motions from the 1999 Kocaeli and Duzce Earthquakes in Turkey**
Sucuoglu H.
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- XLV. **An overview of local site effects and the associated building damage in Adapazari during the 17 August 1999 İzmit earthquake**
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- XLVI. **Analysis of Accelerations from the 1 October 1995 Dinar, Turkey, earthquake**
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- XLVII. **Structural rehabilitation of damaged RC buildings after the 1 October 1995 Dinar earthquake**
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- XLVIII. **Statistical evaluation of the damage potential of earthquake ground motions**
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- L. **Behaviour of window glass panels during earthquakes**
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- LII. **Performance evaluation of a three-storey unreinforced masonry building during the 1992 Erzincan earthquake**
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- LIII. **ENGINEERING EVALUATION OF THE 1 OCTOBER 1995 DINAR EARTHQUAKE (ML=5.9)**
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- JOURNAL OF EARTHQUAKE ENGINEERING, vol.1, no.3, pp.581-602, 1997 (SCI-Expanded)
- LIV. **PREDICTION OF SEISMIC ENERGY DISSIPATION IN SDOF SYSTEMS VOL 24 PG 1215 1995**
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- LV. **PREDICTION OF SEISMIC ENERGY-DISSIPATION IN SDOF SYSTEMS**
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- LVI. **EARTHQUAKE GROUND MOTION CHARACTERISTICS AND SEISMIC ENERGY-DISSIPATION**
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- LVII. **Inelastic seismic response of precast concrete frames with constructed plastic hinges**
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- LVIII. **AN ANALYTICAL ASSESSMENT OF ELASTIC AND INELASTIC RESPONSE SPECTRA**
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- LIX. **RESISTANCE MECHANISMS IN RC BUILDING FRAMES SUBJECTED TO COLUMN FAILURE**
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- LX. **INELASTIC BEHAVIOR OF CONCRETE MASONRY SHEAR WALLS - DISCUSSION**
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- LXII. **NON-LINEAR ANALYSIS OF TUNNEL LININGS UNDER LONGITUDINAL BENDING**
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- LXIII. **A LINEAR MATHEMATICAL-MODEL FOR THE SEISMIC INPLANE BEHAVIOR OF BRICK MASONRY WALLS .1. THEORETICAL CONSIDERATIONS**
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- LXV. **HYSTERETIC RESPONSE OF REINFORCED CONCRETE FRAMES**
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Articles Published in Other Journals

- I. **Düzce, Turkey: A city hit by two major earthquakes in 1999 within three months**
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Books & Book Chapters

- I. **Application of Mesh Reinforced Mortar for Performance Enhancement of Hollow Clay Tile Infill walls**
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- II. **Rapid Seismic Assessment Procedures for the Turkish Building Stock**
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- III. **Qualification of Large Testing Facilities in Earthquake Engineering**
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- XI. **Earthquake Resilience: Performance-based seismic design of concrete structures**
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- XII. **INVESTIGATION OF OVERSTRENGTH IN ASYMMETRIC-PLAN STRUCTURES AS AN OPTIMUM DESIGN STRATEGY**
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- XVI. **Performance Based Seismic Design of Reinforced Concrete Tall Buildings**
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- XVII. **PREDICTION OF INPUT ENERGY SPECTRUM: ATTENUATION MODELS AND VELOCITY SPECTRUM SCALING**
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- XL. **EARTHQUAKE VULNERABILITY LOSS AND RISK ASSESSMENT IN TURKEY**
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Supported Projects

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SUCUOĞLU H., TUBITAK Project, YIĞMA DOLGU DUVARLI BETONARME ÇERÇEVELERİN DAVRANIŞ BÜTÜNLÜĞÜ İÇİN BİR BAĞ SİSTEMİ, 2013 - 2015

Contractual Researches

SUCUOĞLU H., UNIFREE, 2018 - 2019

SUCUOĞLU H., UNIFREE DUTY A.Ş. PROJE, 2016 - 2017

SUCUOĞLU H., ENERJİ-SA PROJESİ, 2013 - 2013

SUCUOĞLU H., Star Rafineri AŞ Projesi, 2012 - 2012

SUCUOĞLU H., ENERJİSA DANIŞMANLIK, 2012 - 2012

SUCUOĞLU H., Riskli Binaların Hızlı Değerlendirme Yöntemleri ile Belirleme Formunun Gelistirilmesi ve Pilot Uygulaması
İş Danışmanlık Hizmetleri , 2009 - 2009

SUCUOĞLU H., Evaluation of projects of facilities for electricity power generation, 2009 - 2009

SUCUOĞLU H., TC Milli Eğitim Bakanlığı OKullarında Yeni Deprem Yönetmeliğine Uygun Hesap ve Detayların
Geliştirilmesi, 2007 - 2007

Activities in Scientific Journals

Earthquakes and Structures, Committee Member, 2012 - Continues

Earthquake Spectra, Committee Member, 2010 - Continues

Journal Of Earthquake Engineering, Committee Member, 2001 - Continues

Metrics

Publication: 122

Citation (WoS): 997

Citation (Scopus): 965

H-Index (WoS): 18

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Invited Talks

New Improvements in the 2018 Turkish Seismic Code, Conference, CEB-FIP, Turkey, November 2018

Awards

Sucuoğlu H., Bilim Ödülü, Parlar Eğitim Ve Araştırma Vakfı, December 2012

Non Academic Experience

METU

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