

Prof. Dr. HALUK SUCUOĞLU

Kişisel Bilgiler

İş Telefonu: [+90 312 210 5480](tel:+903122105480)

E-posta: sucuoglu@metu.edu.tr

Web: <https://avesis.metu.edu.tr/sucuoglu>

Uluslararası Araştırmacı ID'leri

ScholarID: Kht8OysAAAAJ

ORCID: 0000-0003-4475-8182

Publons / Web Of Science ResearcherID: J-3654-2016

ScopusID: 57221862225

Yoksis Araştırmacı ID: 163267

Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Mühendislik Bilimleri Bölümü, Türkiye 1976 - 1982

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1974 - 1976

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1970 - 1974

Yaptığı Tezler

Doktora, Yığma duvarların deprem davranışları, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Mühendislik Bilimleri Bölümü, 1982

Yüksek Lisans, Betonarme Çerçeveelerin Deprem Davranışı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1976

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1978 - Devam Ediyor

Yönetilen Tezler

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

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

K.KAATSIZ(Öğrenci), 2019

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

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

SUCUOĞLU H., Performance based seismic design of reinforced concrete tall buildings, Yüksek Lisans, E.BUDAK(Öğrenci), 2015

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

SUCUOĞLU H., A linear modal combination procedure for structural dynamics, Yüksek Lisans, S.TANIŞER(Öğrenci), 2013

- BİNİCİ B., SUCUOĞLU H., Modelling effects of insufficient lap splices on a deficient reinforced concrete frame, Yüksek Lisans, W.WEI(Öğrenci), 2013
- SUCUOĞLU H., Yapı dinamiği için doğrusal mod birleştirme yöntemi, Yüksek Lisans, S.Tanışer(Öğrenci), 2013
- SUCUOĞLU H., Generalized pushover analysis, Yüksek Lisans, F.SONER(Öğrenci), 2012
- SUCUOĞLU H., Generalized pushover analysis for unsymmetrical-plan buildings, Yüksek Lisans, K.KAATSIZ(Öğrenci), 2012
- SUCUOĞLU H., A nonlinear equivalent frame model for displacement based analysis of unreinforced brick masonry buildings, Yüksek Lisans, İ.OZAN(Öğrenci), 2010
- SUCUOĞLU H., Displacement-based seismic rehabilitation of non-ductile RC frames with added shear walls, Yüksek Lisans, C.KARAGEYİK(Öğrenci), 2010
- ERBERİK M. A., SUCUOĞLU H., Energy based seismic performance assessment of reinforced concrete columns, Doktora, B.ACUN(Öğrenci), 2010
- SUCUOĞLU H., An equivalent linearization procedure for seismic response prediction of MDOF systems, Doktora, M.SELİM(Öğrenci), 2008
- SUCUOĞLU H., Quantitative evaluation of assessment methods in the 2007 Turkish earthquake code, Yüksek Lisans, A.ŞENGÖZ(Öğrenci), 2007
- SUCUOĞLU H., Dynamic pull analysis for estimating seismic response, Yüksek Lisans, C.DEĞIRMENCİ(Öğrenci), 2006
- SUCUOĞLU H., A comparative assessment of an existing reinforced concrete building by using different seismic rehabilitation codes and procedures, Yüksek Lisans, İ.ÖZTÜRK(Öğrenci), 2006
- SUCUOĞLU H., Performance evaluation of existing medium rise reinforced concrete buildings according to 2006 Turkish Seismic Rehabilitation Code, Yüksek Lisans, Z.DÜZCE(Öğrenci), 2006
- ÇETİN K. Ö., SUCUOĞLU H., Effects of soil structure interaction and base isolated systems on seismic performance of foundation soils, Yüksek Lisans, S.SOYÖZ(Öğrenci), 2004
- SUCUOĞLU H., Simplified procedures for seismic assessment of medium rise reinforced concrete building structures, Yüksek Lisans, M.SELİM(Öğrenci), 2003
- SUCUOĞLU H., Seismic evaluation of school buildings after the 12 November 1999 Düzce earthquake, Yüksek Lisans, H.AYDIN(Öğrenci), 2002
- SUCUOĞLU H., Seismic performance assessment of a residential building in Düzce during the 12 November 1999 Düzce Earhquake., Yüksek Lisans, S.Baylı(Öğrenci), 2002
- SUCUOĞLU H., Assessment of seismic retrofitting by life cycle costing method, Yüksek Lisans, G.MACİT(Öğrenci), 2002
- SUCUOĞLU H., Seismic performance assessment of a residential building in Düzce during the 12 November 1999 Düzce earthquake, Yüksek Lisans, S.BAYILI(Öğrenci), 2002
- SUCUOĞLU H., Cost comparison of clay brick and AAC masonry walls employed in seimic resistant masonry and reinforced concrete building construction., Yüksek Lisans, H.Burak(Öğrenci), 2001
- SUCUOĞLU H., Cost comparison of clay brick and AAC masonry walls employed in seismic resistant masonry and reinforced concrete building construction, Yüksek Lisans, H.BURAK(Öğrenci), 2001
- SUCUOĞLU H., Energy based seismic evaluation of degrading systems, Doktora, M.ALTUĞ(Öğrenci), 2001
- POLAT U., SUCUOĞLU H., Development of a uniaxial shaking table and a data acquisition system, Yüksek Lisans, A.Korucu(Öğrenci), 1999
- SUCUOĞLU H., Capacity evaluation of damaged and repaired structures, Yüksek Lisans, T.GÜR(Öğrenci), 1999
- SUCUOĞLU H., A methodology for the seismic damage assessment of low-rise reinforced concrete buildings, Yüksek Lisans, K.Omane(Öğrenci), 1998
- SUCUOĞLU H., A Methodology for the seismic damage assesment of low-rise reinforced concrete buildings, Yüksek Lisans, K.OMAGE(Öğrenci), 1998
- SUCUOĞLU H., Performance and cost evaluation of reinforced concrete buildings designed according to 1975 and 1997 Turkish Seismic Design Codos, Yüksek Lisans, M.HAKAN(Öğrenci), 1998
- SUCUOĞLU H., Performance and cost evaluation of reinforced concrete buildings designed according to 1975 and 1997 Turkish Seismic Design Codes, Yüksek Lisans, M.Hakan(Öğrenci), 1998
- SUCUOĞLU H., Controlling the seismic behaviour of exterior reinforced concrete frame joints with relocated beam plastic hinges, Yüksek Lisans, E.Başaran(Öğrenci), 1997
- SUCUOĞLU H., Inelastic dynamic response analysis of an instrumented R/C building located on the on the North

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

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- 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, cilt.40, sa.3, ss.2210-2218, 2024 (SCI-Expanded)
- II. A critical assessment of the design displacements of friction pendulum systems**
Alicı F. S., SUCUOĞLU H., Özçamur U.
Soil Dynamics and Earthquake Engineering, cilt.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, cilt.28, sa.4, ss.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., Alicı 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, cilt.39, sa.4, ss.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, cilt.21, sa.1, ss.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, cilt.51, sa.15, ss.3620-3638, 2022 (SCI-Expanded)
- VIII. Performance of structures in Izmir after the Samos island earthquake**

- Yakut A., Sucuoğlu H., Binici B., Canbay E., Donmez C., İlki A., Caner A., Çelik O. C., Ay B. Ö.
 BULLETIN OF EARTHQUAKE ENGINEERING, cilt.20, sa.14, ss.7793-7818, 2022 (SCI-Expanded)
- 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, cilt.26, sa.5, ss.2328-2352, 2022 (SCI-Expanded)
- X. Interstory drift based scaling of earthquake ground motions**
 Eren N., SUCUOĞLU H., Pinho R.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.50, sa.14, ss.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, cilt.50, sa.2, ss.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, cilt.50, sa.2, ss.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, cilt.48, sa.4, ss.412-431, 2019 (SCI-Expanded)
- XIV. Elastic and Inelastic Near-Fault Input Energy Spectra**
 Alici F. S., SUCUOĞLU H.
 EARTHQUAKE SPECTRA, cilt.34, sa.2, ss.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, cilt.15, sa.12, ss.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, cilt.45, sa.13, ss.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, cilt.44, sa.15, ss.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, cilt.31, sa.2, ss.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, cilt.31, sa.1, ss.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, cilt.8, sa.1, ss.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, cilt.43, sa.13, ss.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, cilt.111, sa.5, ss.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, cilt.18, sa.8, ss.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, cilt.29, sa.2, ss.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, cilt.29, sa.1, ss.33-57, 2013 (SCI-Expanded)
- XXVI. **Seismic risk prioritization of residential buildings in Istanbul**
 YAKUT A., SUCUOĞLU H., Akkar S.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.41, sa.11, ss.1533-1547, 2012 (SCI-Expanded)
- XXVII. **Energy Dissipation Capacity of Reinforced Concrete Columns under Cyclic Displacements**
 Acun B., SUCUOĞLU H.
 ACI STRUCTURAL JOURNAL, cilt.109, sa.4, ss.531-540, 2012 (SCI-Expanded)
- XXVIII. **Energy-Based Hysteresis Model for Flexural Response of Reinforced Concrete Columns**
 SUCUOĞLU H., Acun B.
 ACI STRUCTURAL JOURNAL, cilt.109, sa.4, ss.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, cilt.16, sa.7, ss.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, cilt.22, ss.5523-5541, 2011 (SCI-Expanded)
- XXXI. **Generalized force vectors for multi-mode pushover analysis**
 SUCUOĞLU H., Gunay M. S.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.40, sa.1, ss.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, cilt.15, sa.6, ss.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, cilt.39, sa.8, ss.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, cilt.107, sa.3, ss.364-371, 2010 (SCI-Expanded)
- XXXV. **Pros And Cons of Assessment Methods in the 2007 Turkish Earthquake Code**
 Şenboz A., SUCUOĞLU H.
 Teknik Dergi, cilt.20, ss.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, cilt.13, sa.5, ss.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.
 SEISMOLOGICAL RESEARCH LETTERS, cilt.78, sa.4, ss.429-438, 2007 (SCI-Expanded)
- XXXVIII. **A screening procedure for seismic risk assessment in urban building stocks**
 Sucuoglu H., Yazgan U., Yakut A.
 EARTHQUAKE SPECTRA, cilt.23, sa.2, ss.441-458, 2007 (SCI-Expanded)

- XXXIX. **Displacement-based fragility functions for low- and mid-rise ordinary concrete buildings**
 Akkar S., Sucuoglu H., Yakut A.
 EARTHQUAKE SPECTRA, cilt.21, sa.4, ss.901-927, 2005 (SCI-Expanded)
- XL. **Performance-based seismic rehabilitation of damaged reinforced concrete buildings**
 Sucuoglu H., Gur T., Gunay M.
 JOURNAL OF STRUCTURAL ENGINEERING-ASCE, cilt.130, sa.10, ss.1475-1486, 2004 (SCI-Expanded)
- XLI. **Seismic energy dissipation in deteriorating systems through low-cycle fatigue**
 Erberik A., Sucuoglu H.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.33, sa.1, ss.49-67, 2004 (SCI-Expanded)
- XLII. **Energy-based hysteresis and damage models for deteriorating systems**
 Sucuoglu H., Erberik A.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.33, sa.1, ss.69-88, 2004 (SCI-Expanded)
- XLIII. **Predicting intensity and damage distribution during the 1995 Dinar, Turkey, earthquake with generated strong motion accelerograms**
 Sucuoglu H., Anderson J., Zeng Y.
 BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, cilt.93, sa.3, ss.1267-1279, 2003 (SCI-Expanded)
- XLIV. **Engineering characteristics of the near-field strong motions from the 1999 Kocaeli and Duzce Earthquakes in Turkey**
 Sucuoglu H.
 JOURNAL OF SEISMOLOGY, cilt.6, sa.3, ss.347-355, 2002 (SCI-Expanded)
- XLV. **An overview of local site effects and the associated building damage in Adapazari during the 17 August 1999 Izmit earthquake**
 Bakir B., Sucuoglu H., Yilmaz T.
 Bulletin of the Seismological Society of America, cilt.92, sa.1, ss.509-526, 2002 (SCI-Expanded)
- XLVI. **Analysis of Accelerations from the 1 October 1995 Dinar, Turkey, earthquake**
 Anderson J., Zeng Y., Sucuoglu H.
 BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, cilt.91, sa.6, ss.1433-1445, 2001 (SCI-Expanded)
- XLVII. **Structural rehabilitation of damaged RC buildings after the 1 october 1995 Dinar earthquake**
 Wasti S., Sucuoglu H., Utku M.
 JOURNAL OF EARTHQUAKE ENGINEERING, cilt.5, sa.2, ss.131-151, 2001 (SCI-Expanded)
- XLVIII. **Statistical evaluation of the damage potential of earthquake ground motions**
 Sucuoglu H., Yucemen S., Gezer A., Erberik A.
 STRUCTURAL SAFETY, cilt.20, sa.4, ss.357-378, 1998 (SCI-Expanded)
- XLIX. **An approach to the measurement of the potential structural damage of earthquake ground motions - Discussion**
 Sucuoglu H.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.26, sa.12, ss.1283-1285, 1997 (SCI-Expanded)
- L. **Behaviour of window glass panels during earthquakes**
 Sucuoglu H., Vallabhan C.
 ENGINEERING STRUCTURES, cilt.19, sa.8, ss.685-694, 1997 (SCI-Expanded)
- LI. **Earthquake ground motion characteristics and seismic energy dissipation - Reply**
 Sucuoglu H., Nurtug A.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.26, sa.4, ss.497-498, 1997 (SCI-Expanded)
- LII. **Performance evaluation of a three-storey unreinforced masonry building during the 1992 Erzincan earthquake**
 Sucuoglu H., Erberik A.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.26, sa.3, ss.319-336, 1997 (SCI-Expanded)
- LIII. **ENGINEERING EVALUATION OF THE 1 OCTOBER 1995 DINAR EARTHQUAKE (ML=5.9)**
 SUCUOĞLU H., Nurtug A., Ergunay O., Gencoglu S.
 JOURNAL OF EARTHQUAKE ENGINEERING, cilt.1, sa.3, ss.581-602, 1997 (SCI-Expanded)
- LIV. **PREDICTION OF SEISMIC ENERGY DISSIPATION IN SDOF SYSTEMS VOL 24 PG 1215 1995**

- Nurtuğ A., SUCUOĞLU H.
 Earthquake Engineering Dynamics, cilt.24, ss.1545, 1995 (SCI-Expanded)
- LV. PREDICTION OF SEISMIC ENERGY-DISSIPATION IN SDOF SYSTEMS**
 NURTUG A., SUCUOĞLU H.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.24, sa.9, ss.1215-1223, 1995 (SCI-Expanded)
- LVI. EARTHQUAKE GROUND MOTION CHARACTERISTICS AND SEISMIC ENERGY-DISSIPATION**
 SUCUOĞLU H., NURTUG A.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.24, sa.9, ss.1195-1213, 1995 (SCI-Expanded)
- LVII. Inelastic seismic response of precast concrete frames with constructed plastic hinges**
 SUCUOĞLU H., NURTUG A.
 Computers, cilt.56, ss.121-131, 1995 (SCI-Expanded)
- LVIII. AN ANALYTICAL ASSESSMENT OF ELASTIC AND INELASTIC RESPONSE SPECTRA**
 SUCUOĞLU H., DICLELİ M., NURTUG A.
 CANADIAN JOURNAL OF CIVIL ENGINEERING, cilt.21, sa.3, ss.386-395, 1994 (SCI-Expanded)
- LIX. RESISTANCE MECHANISMS IN RC BUILDING FRAMES SUBJECTED TO COLUMN FAILURE**
 SUCUOĞLU H., CITIPİTOĞLU E., ALTIN S.
 JOURNAL OF STRUCTURAL ENGINEERING-ASCE, cilt.120, sa.3, ss.765-782, 1994 (SCI-Expanded)
- LX. INELASTIC BEHAVIOR OF CONCRETE MASONRY SHEAR WALLS - DISCUSSION**
 SUCUOĞLU H.
 JOURNAL OF STRUCTURAL ENGINEERING-ASCE, cilt.117, sa.9, ss.2805-2807, 1991 (SCI-Expanded)
- LXI. SEISMIC SHEAR CAPACITY OF REINFORCED MASONRY PIERS**
 SUCUOĞLU H., MCNIVEN H.
 JOURNAL OF STRUCTURAL ENGINEERING-ASCE, cilt.117, sa.7, ss.2166-2186, 1991 (SCI-Expanded)
- LXII. NON-LINEAR ANALYSIS OF TUNNEL LININGS UNDER LONGITUDINAL BENDING**
 SUCUOĞLU H.
 PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS PART 2-RESEARCH AND THEORY, cilt.87, ss.159-174, 1989 (SCI-Expanded)
- LXIII. A LINEAR MATHEMATICAL-MODEL FOR THE SEISMIC INPLANE BEHAVIOR OF BRICK MASONRY WALLS .1. THEORETICAL CONSIDERATIONS**
 Mengi Y., SUCUOĞLU H., McNiven H.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.12, sa.3, ss.313-326, 1984 (SCI-Expanded)
- LXIV. A LINEAR MATHEMATICAL-MODEL FOR THE SEISMIC INPLANE BEHAVIOR OF BRICK MASONRY WALLS .2. DETERMINATION OF MODEL PARAMETERS THROUGH OPTIMIZATION USING EXPERIMENTAL-DATA**
 SUCUOĞLU H., Mengi Y., McNiven H.
 EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.12, sa.3, ss.327-346, 1984 (SCI-Expanded)
- LXV. HYSTERETIC RESPONSE OF REINFORCED CONCRETE FRAMES**
 SUCUOĞLU H., Aktan E.
 JOURNAL OF THE AMERICAN CONCRETE INSTITUTE, ss.288, 1980 (SCI-Expanded)

Düzen Dergilerde Yayınlanan Makaleler

- I. **Düzce, Turkey: A city hit by two major earthquakes in 1999 within three months**
 SUCUOĞLU H., YILMAZ M. T.
 Seismological Research Letters, cilt.72, sa.6, ss.679-689, 2001 (Scopus)

Kitap & Kitap Bölümleri

- I. **Application of Mesh Reinforced Mortar for Performance Enhancement of Hollow Clay Tile Infill walls**

- EZZATFAR P., BİNİCİ B., KURÇ Ö., CANBAY E., SUCUOĞLU H., ÖZCEBE G.
Seismic Evaluation and Rehabilitation of Structures, İlki Alper, Fardis Michael, Editör, Springer, ss.171-186, 2014
- II. Rapid Seismic Assessment Procedures for the Turkish Building Stock**
YAKUT A., ERBERİK M. A., İLKİ A., SUCUOĞLU H., AKKAR D. S.
Seismic Evaluation and Rehabilitation of Structures, Alper İlki, Michael N. Fardis, Editör, Springer, ss.15-35, 2014
- III. Qualification of Large Testing Facilities in Earthquake Engineering**
KURÇ Ö., SUCUOĞLU H., Marco M., Gabriele Z.
Role of Seismic Testing Facilities in Performance Based Earthquake Engineering, Fardis, Michael N, Rakicevic, Zoran, Editör, Springer, ss.287-303, 2012
- IV. The Effect of Displacement History on the Performance of Concrete Columns in Flexure**
Acun B., SUCUOĞLU H.
Advances in Performance Based Earthquake Engineering, Michael N. Fardis, Editör, ADVANCES IN PERFORMANCE-BASED EARTHQUAKE ENGINEERING, ss.373-382, 2010
- V. Multi-Mode Pushover Analysis with Generalized Force Vectors**
SUCUOĞLU H., Günay S.
ADVANCES IN PERFORMANCE BASED EARTHQUAKE ENGINEERING, Micheal N. Fardis, Editör, SPRINGER, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS, ss.213-223, 2010
- VI. Binalar için Deprem Mühendisliği Temel İlkeler**
CANBAY E., GÜLKAN H. P., YAKUT A., tankut t., ÖZCEBE G., SUCUOĞLU H., AKKAR D. S., ersoy u., BAKIR B. S., YILMAZ M. T., et al.
EVRİM, 2008
- VII. An equivalent linearization procedure for displacement-based seismic assessment of vulnerable RC buildings**
Günay S., SUCUOĞLU H.
An equivalent linearization procedure for displacement based seismic assessment of vulnerable RC buildings, S. Tanvir Wasti, Güney Özcebe, Editör, SPRINGER, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS, ss.63-78, 2006
- VIII. In defence of Zeytinburnu**
ÖZCEBE G., SUCUOĞLU H., Yücemem S.
ADVANCES IN EARTHQUAKE ENGINEERING FOR URBAN RISK REDUCTION, S. Tanvir Wasti, Güney Özcebe, Editör, SPRINGER, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS, ss.95-116, 2006

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. Reconstruction of a Damaged Region in Antalya with Seismic Isolation Technology**
Kubin D., Kacmaz U., Feroglu G., Tanfener T., Erol B., SUCUOĞLU H.
18th World Conference on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures, WCSI 2023, Antalya, Türkiye, 6 - 10 Kasım 2023, cilt.533 LNCE, ss.296-312
- II. Effects of Torsional Flexibility in Asymmetric Systems**
Kaatsız K., SUCUOĞLU H.
7th International Conference on Earthquake Engineering and Seismology, 7ICEES 2023, Antalya, Türkiye, 6 - 10 Kasım 2023, cilt.488 LNCE, ss.273-281
- III. Seismic Performance Investigation of Base Isolated Hospital Buildings After Kahramanmaraş Earthquakes**
Kaatsız K., Alici F. S., Tanışer S., Özçamur U., SUCUOĞLU H.
18th World Conference on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures, WCSI 2023, Antalya, Türkiye, 6 - 10 Kasım 2023, cilt.533 LNCE, ss.735-747
- IV. Predicting the Distribution of Hysteretic Energy Demand in Frame Members**
Alici F. S., SUCUOĞLU H.
2nd International Workshop on Energy-Based Seismic Engineering, IWEBSE 2023, Porto, Portekiz, 3 - 06 Temmuz 2023, cilt.236 LNCE, ss.1-13

- V. **Estimation of ductility in asymmetric-plan structures**
Kaatsiz K., SUCUOĞLU H.
8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering,
COMPDYN 2021, Athens, Yunanistan, 28 - 30 Haziran 2021, cilt.2021-June
- VI. **Efficiency of Viscous Damping in Seismic Energy Dissipation and Response Reduction**
Alici F. S., SUCUOĞLU H.
1st International Workshop on Energy-Based Seismic Engineering, IWEBSE 2021, Madrid, İspanya, 24 - 26 Mayıs
2021, ss.265-276
- VII. **New Improvements in the 2018 Turkish Seismic Code**
SUCUOĞLU H.
FIB IWAMISSE 2018: International Workshop on Advanced Materials and Innovative Systems in Structural
Engineering, İstanbul, Türkiye, 18 Ekim 2018
- VIII. **Investigation of Overstrength in Asymmetric-Plan Structures**
KAATSIZ K., SUCUOĞLU H.
16th European Conference on Earthquake Engineering, Thessaloniki, Yunanistan, 18 - 21 Haziran 2018
- IX. **Performance Based Seismic Evaluation of a 62 Story RC Tower in Istanbul**
BUDAK E., SUCUOĞLU H.
16th European Conference on Earthquake Engineering, Thessaloniki, Yunanistan, 18 - 21 Haziran 2018
- X. **Prediction of input energy spectrum: prediction models and velocity spectrum scaling**
ALICI F. S., SUCUOĞLU H.
16th European Conference on Earthquake Engineering, Thessaloniki, Yunanistan, 18 - 21 Haziran 2018
- XI. **Earthquake Resilience: Performance-based seismic design of concrete structures**
SUCUOĞLU H.
Innovation in Precast Summit, 26 - 27 Kasım 2017
- XII. **INVESTIGATION OF OVERSTRENGTH IN ASYMMETRIC-PLAN STRUCTURES AS AN OPTIMUM DESIGN
STRATEGY**
KAATSIZ K., SUCUOĞLU H.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Ankara, Türkiye, 11 - 13 Ekim 2017
- XIII. **Sismik Girdi Enerjisi Tahmini: Tahmin Denklemleri ve Hız Spektrumu Ölçeklendirmesi**
ALICI F. S., SUCUOĞLU H.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 Ekim 2017
- XIV. **Application of Performance Based Seismic Design to Tall buildings Located in high Seismic Region**
BUDAK E., SUCUOĞLU H.
XVII International Scientific Conference- VSU 2017 Sofia, 8 - 09 Haziran 2017
- XV. **Safety of Airport Structures Against Blast Attack**
SUCUOĞLU H.
The 7th Jordanian International Civil Engineering Conference (JICEC) Amman, Jordan, Amman, Ürdün, 10 - 12
Mayıs 2017
- XVI. **Performance Based Seismic Design of Reinforced Concrete Tall Buildings**
BUDAK E., SUCUOĞLU H.
16th World Conference on Earthquake Engineering (Chile-16WCEE), 9 - 13 Ocak 2017
- XVII. **PREDICTION OF INPUT ENERGY SPECTRUM: ATTENUATION MODELS AND VELOCITY SPECTRUM
SCALING**
ALICI F. S., SUCUOĞLU H.
16th World Conference on Earthquake Engineering, 9 - 13 Ocak 2017
- XVIII. **GENERALIZED PUSHOVER ANALYSIS FOR TORSIONALLY COUPLED SYSTEMS**
KAATSIZ K., ALICI F. S., SUCUOĞLU H.
16th World Conference on Earthquake Engineering, Santiago, Şili, 9 - 13 Ocak 2017
- XIX. **BİNA YAPILARININ ÇOK MODLU İTME ANALİZİ İÇİN GENEL YÜK VEKTÖRLERİNİN PRATİK
UYGULAMASI**
ALICI F. S., SUCUOĞLU H.

3. TÜRKİYE DEPREM MÜHENDİSLİĞİ VE SİSMOLOJİ KONFERANSI, İzmir, Türkiye, 14 - 16 Ekim 2015
- XX. **BURULMALI SİSTEMLER İÇİN GENEL YÜK VEKTÖRLERİ İLE ÇOK MODLU İTME ANALİZİ**
KAATSIZ K., SUCUOĞLU H.
3. TÜRKİYE DEPREM MÜHENDİSLİĞİ VE SİSMOLOJİ KONFERANSI, İzmir, Türkiye, 14 - 16 Ekim 2015
- XXI. **Practical implementation of generalized pushover analysis for multimodal pushover analysis**
ALICI F. S., SUCUOĞLU H.
- The 2015 World Congress on Advances in Structural Engineering and Mechanics, Incheon, Güney Kore, 25 - 29 Ağustos 2015
- XXII. **Generalized force vectors for analysis of torsionally coupled systems**
KAATSIZ K., SUCUOĞLU H.
- The 2015 World Congress on Advances in Structural Engineering and Mechanics, Incheon, Güney Kore, 25 - 27 Ağustos 2015
- XXIII. **Fundamental Concepts of Performance Based Earthquake Engineering**
SUCUOĞLU H.
- 2015 World Congress on Advances in Structural Engineering and Mechanics, 25 - 29 Ağustos 2015
- XXIV. **Detrimental Role of Masonary Infills on the Seismic Performance of Residential Buildings**
SUCUOĞLU H.
- Second International Workshop on Seismic Performance of Non-Structural Elements, Pavia, İtalya, 13 Mayıs 2015
- XXV. **Performance Based Procedures in the Assessment and Retrofitting of Existing Structures**
SUCUOĞLU H.
- The Sixth Jordanian International Civil Engineering Conference, Amman, Ürdün, 10 - 12 Mart 2015, ss.21-22
- XXVI. **Performance assessment of RC frames with HCT brick infill walls rehabilitated with MRM by using pseudo dynamic test protocols**
Ezzatfar P., BİNİCİ B., KURÇ Ö., CANBAY E., Sucuoğlu H., Özcebe G.
- 5th International Conference on Advances in Experimental Structural Engineering, AESE 2013, Taipei, Tayvan, 8 - 09 Kasım 2013
- XXVII. **Dokuz Katlı Tunel Kalıp Bina Sonlu Eleman Modelinin Zorlamalı Titreşim Test Verileri ile Güncellenmesi**
Çelik O. C., Sucuoğlu H., Akyüz U.
1. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Ankara, Türkiye, 11 - 14 Ekim 2011, ss.1-7
- XXVIII. **Qualification of Large Testing Facilities in Earthquake Engineering Research**
KURÇ Ö., SUCUOĞLU H., Molinari M., Zanon G.
- Workshop on the Role of Research Infrastructures in Performance-Based Earthquake Engineering, Ohrid, Makedonya, 2 - 03 Eylül 2010, cilt.22, ss.287-303
- XXIX. **Performance limits for reinforced concrete columns under severe displacement cycles**
Acun B., SUCUOĞLU H.
- 3rd International fib Congress and Exhibition, Incorporating the PCI Annual Convention and Bridge Conference 2010, Washington, Amerika Birleşik Devletleri, 29 Mayıs - 02 Haziran 2010
- XXX. **The Effect of Displacement History on the Performance of Concrete Columns in Flexure**
Acun B., SUCUOĞLU H.
- Workshop on Advances in Performances-Based Earthquake Engineering, Corfu, Yunanistan, 01 Temmuz 2009, cilt.13, ss.373-382
- XXXI. **Multi-Mode Pushover Analysis with Generalized Force Vectors**
SUCUOĞLU H., Guenay M. S.
- Workshop on Advances in Performances-Based Earthquake Engineering, Corfu, Yunanistan, 01 Temmuz 2009, cilt.13, ss.213-215
- XXXII. **An equivalent linearization procedure for displacement-based seismic assessment of vulnerable RC buildings**
Gunay M. S., SUCUOĞLU H.
- Workshop on Advances in Earthquake Engineering for Urban Risk Reduction, İstanbul, Türkiye, 30 Mayıs - 01 Haziran 2005, cilt.66, ss.63-65

- XXXIII. In defence of Zeytinburnu**
Ozcebe G., SUCUOĞLU H., YÜCEMEN M. S., YAKUT A.
Workshop on Advances in Earthquake Engineering for Urban Risk Reduction, İstanbul, Türkiye, 30 Mayıs - 01 Haziran 2005, cilt.66, ss.95-97
- XXXIV. Influence of ground motion intensity on the performance of low- and mid-rise ordinary concrete buildings**
Akkar S., Sucuoglu H., Yakut A.
Workshop on Future Directions in Instrumentation for Strong Motion and Engineering Seismology, Kusadası, Türkiye, 17 - 21 Mayıs 2004, cilt.58, ss.123-138
- XXXV. Forced Vibration Testing of Reinforced Concrete Buildings**
Çelik O. C., Sucuoğlu H., Akyüz U.
Fifth National Conference on Earthquake Engineering, İstanbul, Türkiye, 26 - 30 Mayıs 2003, ss.1-10
- XXXVI. Peak ground velocity sensitive deformation demands and a rapid damage assessment approach**
Akkar S., Sucuoglu H.
Workshop on Seismic Assessment and Rehabilitation of Existing Buildings, İzmir, Türkiye, 13 Mayıs 2003, cilt.29, ss.77-96
- XXXVII. Simple survey procedures for seismic risk assessment in urban building stocks**
Sucuoglu H., Yazgan U.
Workshop on Seismic Assessment and Rehabilitation of Existing Buildings, İzmir, Türkiye, 13 Mayıs 2003, cilt.29, ss.97-118
- XXXVIII. Influence of peak ground velocity on seismic failure probability**
Sucuoglu H., Erberik M., Yucemen M.
4th European Conference on Structural Dynamics (EURODYN 99), PRAGUE, Çek Cumhuriyeti, 7 - 10 Haziran 1999, ss.1031-1036
- XXXIX. Seismic behavior of nonstructural components Window glass panels**
SUCUOĞLU H., Vallabhan G.
7th International Conference on Soil Dynamics and Earthquake Engineering, Girit, Yunanistan, 15 - 17 Mayıs 1995, ss.591-598
- XL. EARTHQUAKE VULNERABILITY LOSS AND RISK ASSESSMENT IN TURKEY**
GÜLKAN H. P., SUCUOĞLU H., Ergünay O.
THE TENTH WORLD CONFERENCE ON EARTHQUAKE ENGINEERING, 19 - 24 Temmuz 1992, ss.539-543
- XLI. ANALYSIS OF A BURIED DOME UNDER BLAST AND GRAVITY LOADS**
SUCUOĞLU H., GÜLKAN H. P.
2ND INTERNATIONAL CONF ON STRUCTURES UNDER SHOCK AND IMPACT, 16 - 18 Haziran 1992, ss.601-612

Desteklenen Projeler

SUCUOĞLU H., Diğer Uluslararası Fon Programları, Masters in Earthquake Engineering and Engineering Seismology, 2015 - 2019
SUCUOĞLU H., TÜBİTAK Projesi, YİĞMA DOLGU DUVARLI BETONARME ÇERÇEVELERİN DAVRANIŞ BÜTÜNLÜĞÜ İÇİN BİR BAĞ SİSTEMİ, 2013 - 2015

Kontrata Dayalı Araştırmalar

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 Degerlendirme Yöntemleri ile Belirleme Formunun Geliştirilmesi 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

Bilimsel Dergilerdeki Faaliyetler

Earthquakes and Structures, Editörler Kurulu Üyesi, 2012 - Devam Ediyor

Earthquake Spectra, Editörler Kurulu Üyesi, 2010 - Devam Ediyor

Journal Of Earthquake Engineering, Editörler Kurulu Üyesi, 2001 - Devam Ediyor

Metrikler

Yayın: 122
Atıf (WoS): 997
Atıf (Scopus): 965
H-İndeks (WoS): 18
H-İndeks (Scopus): 15

Davetli Konuşmalar

New Improvements in the 2018 Turkish Seismic Code, Konferans, CEB-FIP, Türkiye, Kasım 2018

Ödüller

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

Akademi Dışı Deneyim

METU
METU