

## Prof.Dr. MURAT ALTUĞ ERBERİK

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1995 - 2001

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Energy based seismic evaluation of degrading systems, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2001

### Araştırma Alanları

İnşaat Mühendisliği , Mekanik, Yapı , Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2004 - Devam Ediyor

### Yönetilen Tezler

Erberik M. A. , Askan Gündoğan A., Effect of vertical ground motion on the performance of high-rise buildings, Yüksek Lisans, E.KESKİN(Öğrenci), 2020

Erberik M. A. , Energy based evaluation of RC frame structures, Yüksek Lisans, M.AZIZI(Öğrenci), 2019

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Erberik M. A. , Predefined damage patterns for limit analysis on non-engineered masonry buildings, Yüksek Lisans, C.İÇEL(Öğrenci), 2019

Erberik M. A. , Yılmaz M. T. , A lower-bound limit analysis solution for lateral load capacity of masonry walls, Yüksek Lisans, D.KARADENİZ(Öğrenci), 2019

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

ERBERİK M. A. , YILMAZ M. T. , An implementation of probabilistic seismic hazard analysis in selection of seismic coefficient for pseudo-static analysis of slope stability, Yüksek Lisans, K.GEDİKASLAN(Öğrenci), 2017

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ERBERİK M. A. , ASKAN GÜNDOĞAN A., An integrated seismic loss estimation methodology: A case study in Northwestern Turkey, Yüksek Lisans, E.MÜGE(Öğrenci), 2011

ERBERİK M. A. , Seismic vulnerability of masonry structures in Turkey, Yüksek Lisans, H.CERAN(Öğrenci), 2010

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

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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Derivation of analytical fragility curves using SDOF models of masonry structures in Erzincan (Turkey)**  
Karimzadeh S., Kadas K., Askan A., Erberik M. A. , Yakut A.  
EARTHQUAKES AND STRUCTURES, cilt.18, ss.249-261, 2020 (SCI İndekslerine Giren Dergi)
- **Use of simulated ground motions for the evaluation of energy response of simple structural systems**  
Karimzadeh S., Ozsarac V., Askan A., ERBERİK M. A.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, cilt.123, ss.525-542, 2019 (SCI İndekslerine Giren Dergi)
- **Seismic performance assessment of confined masonry construction at component and structure levels**  
ERBERİK M. A. , Citiloglu C., Erkoseoglu G.  
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.17, ss.867-889, 2019 (SCI İndekslerine Giren Dergi)
- **Seismic damage assessment based on regional synthetic ground motion dataset: a case study for Erzincan, Turkey**  
Karimzadeh S., Askan A., Erberik M. A. , Yakut A.  
NATURAL HAZARDS, cilt.92, ss.1371-1397, 2018 (SCI İndekslerine Giren Dergi)
- **The effect of structural variability and local site conditions on building fragility functions**  
Sisi A. A. , Erberik M. A. , Askan A.  
EARTHQUAKES AND STRUCTURES, cilt.14, ss.285-295, 2018 (SCI İndekslerine Giren Dergi)
- **Site-specific uniform hazard spectrum in Eastern Turkey based on simulated ground motions including near-field directivity and detailed site effects**  
Sisi A. A. , Askan A., Erberik M. A.  
ACTA GEOPHYSICA, cilt.65, ss.309-330, 2017 (SCI İndekslerine Giren Dergi)
- **Performance Assessment of Turkish Residential Buildings for Seismic Damage and Loss Estimation**  
Un E. M. , Erberik M. A. , Askan A.  
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, cilt.29, 2015 (SCI İndekslerine Giren Dergi)
- **Blockage assessment of buildings during emergency using multiple types of sensors**  
Ergen Pehlevan E., Guven G., KURÇ Ö., ERBERİK M. A. , Ergin T., BİRGÖNÜL M. T. , Akinci B.

- AUTOMATION IN CONSTRUCTION, cilt.49, ss.71-82, 2015 (SCI İndekslerine Giren Dergi)  
**Effect of out-of-plane behavior on seismic fragility of masonry buildings in Turkey**  
Ceran H. B. , ERBERİK M. A.
- BULLETIN OF EARTHQUAKE ENGINEERING, cilt.11, ss.1775-1795, 2013 (SCI İndekslerine Giren Dergi)  
**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, ss.33-57, 2013 (SCI İndekslerine Giren Dergi)  
**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, ss.937-962, 2012 (SCI İndekslerine Giren Dergi)  
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Ugurhan B., Askan A., Erberik M. A.
- BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, cilt.101, ss.710-725, 2011 (SCI İndekslerine Giren Dergi)  
**8 March 2010 Elazig-Kovancilar (Turkey) Earthquake: Observations on Ground Motions and Building Damage**  
Akkar S., Aldemir A., Askan A., Bakir S., Canbay E., Demirel I. O. , Erberik M. A. , Gülerce Z., Gulkan P., Kalkan E., et al.
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**Importance of Degrading Behavior for Seismic Performance Evaluation of Simple Structural Systems**  
ERBERİK M. A.
- JOURNAL OF EARTHQUAKE ENGINEERING, cilt.15, ss.32-49, 2011 (SCI İndekslerine Giren Dergi)  
**Seismic Risk Assessment of Masonry Buildings in Istanbul for Effective Risk Mitigation**  
Erberik M. A.
- EARTHQUAKE SPECTRA, cilt.26, ss.967-982, 2010 (SCI İndekslerine Giren Dergi)  
**Fragility-based assessment of typical mid-rise and low-rise RC buildings in Turkey**  
Erberik M. A.
- ENGINEERING STRUCTURES, cilt.30, ss.1360-1374, 2008 (SCI İndekslerine Giren Dergi)  
**Generation of fragility curves for Turkish masonry buildings considering in-plane failure modes**  
Erberik M. A.
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AY B. Ö. , ERBERİK M. A.
- JOURNAL OF EARTHQUAKE ENGINEERING, cilt.12, ss.2-11, 2008 (SCI İndekslerine Giren Dergi)  
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Erberik M. A. , Elnashai A.
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Sucuoglu H., Erberik A.
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**Seismic energy dissipation in deteriorating systems through low-cycle fatigue**  
Erberik A., Sucuoglu H.
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**Statistical evaluation of the damage potential of earthquake ground motions**  
Sucuoglu H., Yucemen S., Gezer A., Erberik A.
- STRUCTURAL SAFETY, cilt.20, ss.357-378, 1998 (SCI İndekslerine Giren Dergi)  
**Performance evaluation of a three-storey unreinforced masonry building during the 1992 Erzincan earthquake**  
Sucuoglu H., Erberik A.
- EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.26, ss.319-336, 1997 (SCI İndekslerine Giren Dergi)

## Kitap & Kitap Bölümleri

- **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

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **Energy-Based Evaluation of RC Frame Structures**  
Azizi M., Erberik M. A.  
5th International Conference on Earthquake Engineering and Seismology, Ankara, Türkiye, 8 - 11 Ekim 2019, ss.1-14
- **Comparison of energy-based responses of structural systems to real and simulated ground motion records**  
Ozsarac V., Karimzadeh S., Askan A., ERBERİK M. A.  
7th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2019, Crete, Yunanistan, 24 - 26 Haziran 2019, cilt.2, ss.2234-2243
- **Comparison energy-based seismic structural responses based on simulated ground motions with existing empirical relationships**  
Karimzadeh S., Askan A., Erberik M. A.  
13th International Congress on Advances in Civil Engineering, İzmir, Türkiye, 12 - 14 Eylül 2018
- **Comparison of energy-based seismic structural responses based on simulated ground motions with existing empirical relationships**  
Erberik M. A.  
13th Advances in Civil Engineering Congress (ACE), Cesme, Türkiye, 12 - 14 Eylül 2018
- **EVALUATION OF SEISMIC ENERGY IN SIMPLE STRUCTURAL SYSTEMS USING SIMULATED GROUND MOTIONS**  
Karim Zadeh Naghshneh S., Ozsarac V., Askan Gündoğan A., Erberik M. A.  
Eleventh U.S. National Conference on Earthquake Engineering , California, Amerika Birleşik Devletleri, 25 - 29 Haziran 2018, ss.295
- **FRAGILITY CURVES FOR RC BUILDINGS OF DUZCE (TURKEY) USING SIMULATED RECORDS**  
Kadas K., Karimzadeh S., Askan A., Erberik M. A. , Yakut A.  
11th U.S. National Conference on Earthquake Engineering, California, Amerika Birleşik Devletleri, 25 - 29 Haziran 2018
- **Predefined damage patterns for limit analysis on non-engineered masonry buildings**  
İÇEL C., ERBERİK M. A. , YILMAZ M. T.  
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- **A comparative study on the seismic performances of unreinforced and confined masonry buildings**  
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- **THE COMPARISON OF DIFFERENT FRAGILITY CURVE GENERATION TECHNIQUES TO ESTIMATE OBSERVED DAMAGE DISTRIBUTIONS**  
Karim Zadeh Naghshneh S., Kadas K., Askan A., Erberik M. A. , Yakut A.  
16th European conference on earthquake engineering, Thessaloniki, Yunanistan, 18 - 21 Haziran 2018
- **From Seismic Sources to Engineering Demand Parameters: An Interdisciplinary Framework for Estimation of Seismic Losses in Urban Region**  
Erberik M. A.  
2nd Workshop on Best Practices in Physics-based Fault Rupture Models for Seismic Hazard Assessment of Nuclear Installations: Issues and Challenges towards Full Seismic Risk Analysis (Best PSHANI), Cadarache, Fransa, 14 - 16 Mayıs 2018

● **FROM SEISMIC SOURCES TO ENGINEERING DEMAND PARAMETERS: AN INTERDISCIPLINARY FRAMEWORK FOR ESTIMATION OF SEISMIC LOSSES IN URBAN REGIONS**

Askan A., Asten M., Erberik M. A., Erkmen C., Karimzadeh S., Kılıç N., Şişman N., Yakut A.

Best Practices in Physics-based Fault Rupture Models for Seismic Hazard Assessment of Nuclear Installations: issues and challenges towards full Seismic Risk Analysis, Aix-En-Provence, Fransa, 14 Mayıs - 16 Ağustos 2018

● **From Seismic Sources to Engineering Demand Parameters: An Interdisciplinary Framework for Estimation of Seismic Losses in Urban Regions**

Askan Gündoğan A., Asten, Asten, Asten, Asten M., Erberik M. A., Erkmen C., Karimzadeh S., Kilic N., Sisman F. N., Yakut A.

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● **An energy-based seismic response evaluation of simple structural systems with simulated ground motions**

Karimzadeh S., Ozsarac V., Askan A., ERBERİK M. A.

11th National Conference on Earthquake Engineering 2018: Integrating Science, Engineering, and Policy, NCEE 2018, California, Amerika Birleşik Devletleri, 25 - 29 Haziran 2018, cilt.8, ss.4819-4829

● **Comparison of energy-based seismic structural responses based on simulated ground motions with existing empirical relationships**

ASKAN GÜNDOĞAN A., KARIM ZADEH NAGHSHINEH S., Erberik M. A.

American Geophysical Union (AGU), New Orleans, Amerika Birleşik Devletleri, 11 - 15 Aralık 2017

● **Kırılgenlik eğrileri kullanılarak elde edilen tahmini hasar dağılımının hasar tespit verileriyle karşılaştırılması**

ÇETİN C., ERBERİK M. A.

4th International Conference on Earthquake Engineering and Engineering Seismology, 11 - 13 Ekim 2017

● **Yığma Yapıların Deprem Etkisi Altında Gözleme ve Hesaba Bağlı Değerlendirilmesi için Yöntem**

GENEŞ M. C., Abrahamczyk L., KAÇIN S., ERBERİK M. A.

4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Türkiye, 11 - 13 Ekim 2017

● **An energy-based seismic response evaluation of simple structural systems with simulated ground motions**

KARIMZADEH S., ÖZSARAÇ V., ASKAN GÜNDOĞAN A., ERBERİK M. A.

4th International Conference on Earthquake Engineering and Engineering Seismology, 11 - 13 Ekim 2017

● **A guideline for earthquake risk management of historical structures in Turkey**

AHUNBAY Z., ALTAY G., ARUN E. G., AYDEMİR O., ATASAGUN F. D., CELEP Z., ERBERİK M. A., İLKİ A., KURAN F., ÜNAL Z. G., et al.

4th International Conference on Earthquake Engineering and Engineering Seismology, 11 - 13 Ekim 2017

● **Donatısız ve kuşatılmış yığma yapıların deprem performanslarının karşılaştırılması**

ÇİTİLOĞLU C., ERBERİK M. A.

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● **An Energy-Based Seismic Response Evaluation of Simple Structural Systems with Simulated Ground Motions**

Erberik M. A.

4. International Conference on Earthquake Engineering and Seismology (4ICEES), Eskişehir, Türkiye, 11 - 13 Ekim 2017

● **An Investigation on the Use of Simulated Records in Derivation of Fragility Curves for RC Buildings in Duzce**

Kadaş K., KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Erberik M. A., YAKUT A.

4. International Conference on Earthquake Engineering and Seismology (4ICEES), Eskişehir, Türkiye, 11 - 13 Ekim 2017

● **AN INVESTIGATION ON THE USE OF SIMULATED RECORDS IN DERIVATION OF FRAGILITY CURVES FOR RC BUILDINGS IN**

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- 4th International Conference on Earthquake Engineering and Engineering Seismology, Eskişehir, Türkiye, 11 - 13 Ekim 2017
- **Energy-based response of simple structural systems by using simulated ground motions**  
Ozsarac V., Karimzadeh S., ERBERİK M. A. , ASKAN GÜNDOĞAN A.  
10th International Conference on Structural Dynamics (EURODYN), Rome, İtalya, 10 - 13 Eylül 2017, cilt.199, ss.236-241
  - **A study on fragility analyses of masonry buildings in Erzincan (Turkey) utilizing simulated and real ground motion records**  
Karimzadeh S., Kadas K., ASKAN GÜNDOĞAN A., ERBERİK M. A. , YAKUT A.  
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  - **Preparation of a Guideline for Earthquake Risk Management of Historical Structures in Turkey**  
AHUNBAY Z., ALTAY G., ARUN E. G. , AYDEMİR O., ATASAGUN F. D. , CELEP Z., ERBERİK M. A. , İLKİ A., KURAN F., ÜNAL Z. G. , et al.  
3rd International Conference on Protection of Historical Constructions, PROHITECH, 12 - 15 Temmuz 2017
  - **An Energy-based seismic response evaluation of Simple Structural Systems with Simulated Ground Motions**  
Erberik M. A.  
2017 Seismological Society of America Annual Meeting, Denver, Colorad, Amerika Birleşik Devletleri, 18 - 20 Nisan 2017
  - **Seismic Fragility of Wide-Beam Infill-Joist Block Reinforced Concrete Frame Buildings**  
KARAASLAN E., DÖNMEZ C., ERBERİK M. A.  
16th World Conference on Earthquake Engineering, 9 - 13 Ocak 2017
  - **An Interdisciplinary Approach for Regional Seismic Damage Estimation**  
ASKAN GÜNDOĞAN A., Erberik M. A. , KARIM ZADEH NAGHSHINEH S., YAKUT A., Sisman F. N. , Kilic N., Asten M.  
16th World Conference on Earthquake (16WCEE), Santiago, Şili, 9 - 13 Ocak 2017
  - **Seismic Damage Assessment in Erzincan (Turkey) utilizing Synthetic Ground Motion Records**  
KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Erberik M. A. , YAKUT A.  
16th World Conference on Earthquake (16WCEE), Santiago, Şili, 9 - 13 Ocak 2017
  - **AN INTERDISCIPLINARY APPROACH FOR REGIONAL SEISMIC DAMAGE ESTIMATION**  
ASKAN GÜNDOĞAN A., ERBERİK M. A. , karimzadeh s., YAKUT A., şişman F. n. , Kılıç N., Asten M.  
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  - **SEISMIC DAMAGE ASSESSMENT IN ERZINCAN (TURKEY) UTILIZING SYNTHETIC GROUND MOTION RECORDS**  
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  - **Energy-Based Response of Simple Structural Systems by using Simulated Ground Motions**  
Erberik M. A.  
The American Geophysical Union Annual Fall Meeting (AGU), San-Francisco, Kostarika, 12 - 16 Aralık 2016
  - **Seismic Damage Estimation on Regional Basis A Case Study**  
ERBERİK M. A. , ASKAN GÜNDOĞAN A.  
12th International Congress on Advances in Civil Engineering, 21 - 23 Eylül 2016
  - **Evaluation of Changing Building Characteristics in Turkey**  
Ay B. Ö. , Eroğlu Azak T., Erberik M. A.  
12th International Congress on Advances in Civil Engineering, İstanbul, Türkiye, 21 - 23 Eylül 2016, ss.1-7
  - **A Study on Fragility Analyses of Masonry Buildings in Erzincan (Turkey) Utilizing Simulated and Real Ground Motion Records**  
Erberik M. A.  
The 35rd General Assembly of the European Seismological Commission (GA ESC), Trieste, İtalya, 4 - 11 Eylül 2016
  - **Simulation of 13 March 1992 Erzincan Turkey Earthquake Including a Near Field Forward Directivity Pulse Model Implications for Earthquake Engineering**

Aida S. A. , ASKAN GÜNDOĞAN A., ERBERİK M. A.

Seismological Society of America Annual Meeting 2016, 20 - 22 Nisan 2016

● **Multicomponent seismic loss estimation on the North Anatolian Fault Zone (Turkey)**

Erberik M. A.

● 2015 American Geophysical Union Annual Fall Meeting, San-Francisco, Kostarika, 14 - 18 Aralık 2015

● **Multicomponent seismic loss estimation on the North Anatolian Fault Zone**

Karimzadeh S., ASKAN GÜNDOĞAN A., ERBERİK M. A. , YAKUT A.

● AGU 2015 Fall Meeting, 14 - 18 Aralık 2015

● **Kentsel Alanlar için Bütünleşik Sismik Kayıp Tahmin Yöntemi: Erzincan Pilot Uygulaması**

Erberik M. A.

● 3rd Turkish Conference on Earthquake Engineering and Seismology, İzmir, Türkiye, 14 - 16 Ekim 2015

● **Seismic damage assessment using synthetic ground motions: a case study for Erzincan**

KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Erberik M. A. , YAKUT A.

● 3rd Turkish Conference on Earthquake Engineering and Seismology, İzmir, Türkiye, 14 - 16 Ekim 2015

● **Estimation of seismic losses in urban regions within an interdisciplinary framework a case study**

ASKAN GÜNDOĞAN A., Erberik M. A. , YAKUT A., Kilic N., KARIM ZADEH NAGHSHINEH S., Sisman N., Asten M.

● 2014 Seismological Society of America Annual Meeting, Anchorage, Alaska, Amerika Birleşik Devletleri, 30 Nisan - 02 Mayıs 2014, cilt.85, ss.511

● **Multisensor data fusion for determining hallway blockages in a building during evacuation**

Güven G., Ergen E., Ozbas B., Erberik M. A. , Kurc Ö., BİRGÖNÜL M. T.

● 2013 ASCE International Workshop on Computing in Civil Engineering, IWCCE 2013, Los Angeles, CA, Amerika Birleşik Devletleri, 23 - 25 Haziran 2013, ss.717-724

● **Post disaster sensor based condition assessment of buildings to develop evacuation strategies**

Ergin T., Balta S., ERBERİK M. A. , KURÇ Ö., ERGEN PEHLEVAN E., BİRGÖNÜL M. T.

● Fourteenth International Conference on Computing in Civil and Building Engineering, 27 - 29 Ocak 2012

● **Providing guidance for evacuation during emergency based on a real time damage and vulnerability assessment of facilities**

GÜVEN İŞİN G., ERGEN PEHLEVAN E., ERBERİK M. A. , KURÇ Ö., BİRGÖNÜL M. T.

● ASCE International Conference on Computing in Civil Engineering, 17 - 20 Haziran 2012

● **A Critique on the Turkish Earthquake Code Regulations Regarding Masonry Construction**

Erberik M. A. , Aldemir A., Ay B. Ö.

● 8th International Seminar on Structural Masonry, İstanbul, Türkiye, 5 - 07 Kasım 2008

● **Türkiye deki Az ve Orta Katlı Betonarme Yapıların Deprem Güvenliği Açısından İncelenmesi**

Ay B. Ö. , Erberik M. A.

● 6th National Conference on Earthquake Engineering, İstanbul, Türkiye, 16 - 20 Ekim 2007

● **Fragility Based Assessment of the Structural Deficiencies in Turkish RC Frame Structures**

Ay B. Ö. , Erberik M. A. , Akkar D. S.

● 1st European Conference on Earthquake Engineering and Seismology, Geneve, İsviçre, 3 - 08 Eylül 2006

● **Assessment of seismic fragility curves for low- and mid-rise reinforced concrete frame buildings using Duzce field database**

ERBERİK M. A. , Cullu S.

● Workshop on Advances in Earthquake Engineering for Urban Risk Reduction, İstanbul, Türkiye, 30 Mayıs - 01 Haziran 2005, cilt.66, ss.151-153

● **Influence of peak ground velocity on seismic failure probability**

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## **Atıflar**

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## **Davetli Konuşmalar**

5th International Conference on Earthquake Engineering and Seismology - Special Workshop on behalf of Prof. Sucuoglu, Çalıştay, Orta Dođu Teknik Üniversitesi, Türkiye, Ekim 2019