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Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Jeoloji Mühendisliği, Turkey 1987 - 1991

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Geological Engineering, Applied Geology, Engineering Geology foundations, earthquakes, dams, reservoirs, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 2000 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 1995 - 2000

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 2004 - 2010

Advising Theses

ULUSAY R., Isıl etkiye maruz kalmış granit ve mermer örneklerinin fiziksel ve mekanik özelliklerindeki değişimin araştırılması, Postgraduate, D.KARAPINAR(Student), 2017

Tuncay E., Ulusay R., TKİ – Milas Hüsamlar Açık Linyit Ocağı'nda şev duraysızlık mekanizmalarının araştırılması ve güvenli şev tasarımı, Postgraduate, K.CEM(Student), 2016

ULUSAY R., Kayseri civarındaki turba zeminlerin jeomekanik karakteristiklerinin ve dinamik davranışlarının arazi, laboratuvar ve sayısal modelleme teknikleriyle araştırılması, Doctorate, N.TUNAR(Student), 2015

ULUSAY R., Isparta Ovası'ndaki volkanik zeminlerin jeo-mühendislik karakterizasyonu ve mekanik davranışının araştırılması, Doctorate, E.AVŞAR(Student), 2013

ULUSAY R., Farklı doyumluk koşullarında kayaların dayanım parametreleri ile P-dalga hızı arasındaki ilişkilerin

araştırılması, Doctorate, H.KARAKUL(Student), 2012
ULUSAY R., Zelve Açık Hava Müzesi'ndeki (Kapadokya) kayadan oyma tarihi yapıların jeomekanik açıdan değerlendirilmesi, Doctorate, Ö.KAŞMER(Student), 2011
ULUSAY R., Sıvılaşmayla ilişkili yanılma yer değiştirmesinin kestirimi, Doctorate, N.HASANÇEBİ(Student), 2011
ULUSAY R., Alipaşa (Çine-Aydın) feldispat açık işletmesinde süreksizlik denetimli şev duraysızlıklarının kinematik, analitik ve sayısal çözümleme teknikleriyle incelenmesi, Postgraduate, H.TANYAŞ(Student), 2011
ULUSAY R., Developing a geotechnical microzonation model for Yenişehir (Bursa) settlement area, Doctorate, Ç.KOLAT(Student), 2010
ULUSAY R., Lahanos (Giresun) bakır-çinko tesisi atık barajının şev duraylılığı açısından değerlendirilmesi, Postgraduate, N.TUNAR(Student), 2009
ULUSAY R., Su içeriğinin kil içeren kayaların mühendislik davranışı üzerindeki etkisinin araştırılması, Doctorate, Z.ABİDDİN(Student), 2007
GÖKÇEOĞLU C., ULUSAY R., Barla-Besparmak-Kapı dağlarının kuzey yamaçlarındaki moloz oluşumunu etkileyen faktörlerin ve moloz akma koşullarının araştırılması, Doctorate, M.CELAL(Student), 2007
ULUSAY R., Disk makaslama indeks deneyi ile dayanım anizotropisinin araştırılması, Postgraduate, H.KARAKUL(Student), 2007
ULUSAY R., Akustik emisyon (yayılma) tekniğinin arazi gerilmelerinin belirlenmesinde uygulanabilirliğinin araştırılması, Doctorate, E.TUNCAY(Student), 2006
ULUSAY R., Kocaeli Körfezi güney kıyısında sıvılaşma potansiyelinin ve kapak zemini kalınlığının yüzey deformasyonlarına etkisinin araştırılması, Postgraduate, B.SÖNMEZ(Student), 2006
ULUSAY R., Experimental and numerical assessment of pressuremeter testing, Doctorate, N.SİNAN(Student), 2006
ULUSAY R., Yenişehir (Bursa) ilçesinde zemin büyütmesinin jeoteknik açıdan değerlendirilmesi, Postgraduate, N.OKAN(Student), 2005
ULUSAY R., TKİ-Himmetoğlu linyit açık işletmesindeki şevlerin duraylılığının deterministik ve olasılığa dayalı yöntemlerle değerlendirilmesi, Postgraduate, E.TUNCAY(Student), 1999

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An alternative method for predicting internal friction angle of rock materials**
Karakul H., ULUSAY R.
ENVIRONMENTAL EARTH SCIENCES, no.10, 2024 (SCI-Expanded)
- II. **A new internal friction angle-based approach for estimating Hoek-Brown constant $m(i)$ and its comparison with those estimated from some current methods**
Karakul H., ULUSAY R.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.81, no.8, 2022 (SCI-Expanded)
- III. **An experimental investigation on stress-induced cracking mechanisms of a volcanic rock**
Kong R., TUNCAY E., Ulusay R., Zhang X., Feng X.
Engineering Geology, vol.280, 2021 (SCI-Expanded)
- IV. **Celebrating the 50th anniversary of bulletin of engineering geology and the environment**
ULUSAY R., Wong L.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.79, no.7, pp.3285-3287, 2020 (SCI-Expanded)
- V. **Point Load Strength Index of Half-Cut Core Specimens and Correlation with Uniaxial Compressive Strength**
Sahin M., ULUSAY R., Karakul H.
ROCK MECHANICS AND ROCK ENGINEERING, vol.53, no.8, pp.3745-3760, 2020 (SCI-Expanded)
- VI. **Geo-engineering characterization and an approach to estimate the in-situ long-term settlement of a peat deposit at an industrial district**
Ozcan N., ULUSAY R., IŞIK N. S.
ENGINEERING GEOLOGY, vol.265, 2020 (SCI-Expanded)

- VII. **Effects of Earthquake Faulting on Civil Engineering Structures**
Aydan O., Nasiry N. Z., Ohta Y., ULUSAY R.
JOURNAL OF EARTHQUAKE AND TSUNAMI, vol.12, no.4, 2018 (SCI-Expanded)
- VIII. **The 2016 Hans Cloos lecture**
ULUSAY R., Aydan O.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.77, no.2, pp.457-488, 2018 (SCI-Expanded)
- IX. **An investigation on the mechanisms of instabilities and safe design of the south slope at a lignite pit (SW Turkey) based on a sensitivity approach**
SOLAK K. C., TUNCAY E., ULUSAY R.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.76, no.4, pp.1321-1341, 2017 (SCI-Expanded)
- X. **Assessment of the Mechanism of a Slope Failure in a Hydroelectric Power Plant Site and Considerations on Some Remedial Measures**
TUNCAY E., ULUSAY R.
ENVIRONMENTAL & ENGINEERING GEOSCIENCE, vol.23, no.1, pp.23-41, 2017 (SCI-Expanded)
- XI. **Assessment of basic friction angles of various rock types from Turkey under dry, wet and submerged conditions and some considerations on tilt testing**
ULUSAY R., Karakul H.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.75, no.4, pp.1683-1699, 2016 (SCI-Expanded)
- XII. **An Integrated Geomechanical Investigation, Multi-Parameter Monitoring and Analyses of Babadag-Gundogdu Creep-like Landslide**
KUMSAR H., Aydan O., Tano H., ÇELİK S. B., ULUSAY R.
ROCK MECHANICS AND ROCK ENGINEERING, vol.49, no.6, pp.2277-2299, 2016 (SCI-Expanded)
- XIII. **On the difficulties of geotechnical sampling and practical estimates of the strength of a weakly bonded volcanic soil**
Avsar E., ULUSAY R., Aydan O., MUTLUTÜRK M.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.74, no.4, pp.1375-1394, 2015 (SCI-Expanded)
- XIV. **Comparison of undrained shear strength by pressuremeter and other tests, and numerical assessment of the effect of finite probe length in pressuremeter tests**
IŞIK N. S., ULUSAY R., Doyuran V.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.74, no.3, pp.685-695, 2015 (SCI-Expanded)
- XV. **An experimental investigation of the mechanical behavior and microstructural features of a volcanic soil (Isparta, Turkey) and stability of cut slopes in this soil**
Avsar E., ULUSAY R., MUTLUTÜRK M.
ENGINEERING GEOLOGY, vol.189, pp.68-83, 2015 (SCI-Expanded)
- XVI. **Improvement of slope stability based on integrated geotechnical evaluations and hydrogeological conceptualisation at a lignite open pit**
ULUSAY R., EKMEKÇİ M., TUNCAY E., Hasancebi N.
ENGINEERING GEOLOGY, vol.181, pp.261-280, 2014 (SCI-Expanded)
- XVII. **A New Rock Mass Quality Rating System: Rock Mass Quality Rating (RMQR) and Its Application to the Estimation of Geomechanical Characteristics of Rock Masses**
AYDAN O., ULUSAY R., TOKASHIKI N.
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- XVIII. **Seismic, ground motion and geotechnical characteristics of the 2011 Van-Ercis and Van-Edremit earthquakes of Turkey, and assessment of geotechnical damages**
Aydan O., ULUSAY R., KUMSAR H.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.73, no.2, pp.643-666, 2014 (SCI-Expanded)
- XIX. **ISRM Suggested Method for the Needle Penetration Test**
ULUSAY R., Aydan O., ERGÜLER Z. A., Ngan-Tillard D. J. M., Seiki T., Verwaal W., Sasaki Y., Sato A.

- ROCK MECHANICS AND ROCK ENGINEERING, vol.47, no.3, pp.1073-1085, 2014 (SCI-Expanded)
- XX. **Stability Assessment of Avanos Underground Congress Centre (Cappadocia, Turkey) in Soft Tuffs Through an Integrated Scheme of Rock Engineering Methods**
ULUSAY R., Aydan O., GENİŞ M., Tano H.
ROCK MECHANICS AND ROCK ENGINEERING, vol.46, no.6, pp.1303-1321, 2013 (SCI-Expanded)
- XXI. **Empirical Correlations for Predicting Strength Properties of Rocks from P-Wave Velocity Under Different Degrees of Saturation**
Karakul H., ULUSAY R.
ROCK MECHANICS AND ROCK ENGINEERING, vol.46, no.5, pp.981-999, 2013 (SCI-Expanded)
- XXII. **Geomechanical Evaluation of Derinkuyu Antique Underground City and its Implications in Geoengineering**
Aydan O., ULUSAY R.
ROCK MECHANICS AND ROCK ENGINEERING, vol.46, no.4, pp.731-754, 2013 (SCI-Expanded)
- XXIII. **A study on geotechnical characterization and stability of downstream slope of a tailings dam to improve its storage capacity (Turkey)**
Ozcan N., ULUSAY R., Isik N. S.
ENVIRONMENTAL EARTH SCIENCES, vol.69, no.6, pp.1871-1890, 2013 (SCI-Expanded)
- XXIV. **Effects of Geo-Engineering Characteristics of the Soft Tuffs and Environmental Conditions on the Rock-Hewn Historical Structures at Zelve Open Air Museum, Cappadocia, Turkey**
Kasmer O., ULUSAY R.
ENVIRONMENTAL & ENGINEERING GEOSCIENCE, vol.19, no.2, pp.149-171, 2013 (SCI-Expanded)
- XXV. **Assessments on the stability of natural slopes prone to toe erosion, and man-made historical semi-underground openings carved in soft tuffs at Zelve Open-Air Museum (Cappadocia, Turkey)**
Kasmer O., ULUSAY R., GENİŞ M.
ENGINEERING GEOLOGY, vol.158, pp.135-158, 2013 (SCI-Expanded)
- XXVI. **Assessment of structurally-controlled slope failure mechanisms and remedial design considerations at a feldspar open pit mine, Western Turkey**
Tanyas H., ULUSAY R.
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- XXVII. **Geotechnical aspects of the 2010 Darfield and 2011 Christchurch earthquakes, New Zealand, and geotechnical damage to structures and lifelines**
Aydan O., ULUSAY R., Hamada M., Beetham D.
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- XXVIII. **Evaluation of damage to light structures erected on a fill material rich in expansive soil**
ÖZER M., ULUSAY R., İŞİK N. S.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.71, no.1, pp.21-36, 2012 (SCI-Expanded)
- XXIX. **Development of geotechnical microzonation model for Yenisehir (Bursa, Turkey) located at a seismically active region**
KOLAT Ç., ULUSAY R., SÜZEN M. L.
ENGINEERING GEOLOGY, vol.127, pp.36-53, 2012 (SCI-Expanded)
- XXX. **Geo-engineering properties and settlement of peaty soils at an industrial site (Turkey)**
ULUSAY R., TUNCAY E., HASANCEBI N.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.69, no.3, pp.397-410, 2010 (SCI-Expanded)
- XXXI. **An assistant tool for the Geological Strength Index to better characterize poor and very poor rock masses**
Osgoui R. R., ULUSAY R., Unal E.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.47, no.4, pp.690-697, 2010 (SCI-Expanded)
- XXXII. **Assessments of swelling anisotropy of Ankara clay**
Avsar E., ULUSAY R., SÖNMEZ H.
ENGINEERING GEOLOGY, vol.105, pp.24-31, 2009 (SCI-Expanded)

- XXXIII. **Deformation modulus of heavily jointed-sheared and blocky greywackes by pressuremeter tests: Numerical, experimental and empirical assessments**
IŞIK N. S., ULUSAY R., Doyuran V.
ENGINEERING GEOLOGY, vol.101, pp.269-282, 2008 (SCI-Expanded)
- XXXIV. **Assessment of deformation modulus of weak rock masses from pressuremeter tests and seismic surveys**
IŞIK N. S., Doyuran V., ULUSAY R.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.67, no.3, pp.293-304, 2008 (SCI-Expanded)
- XXXV. **Relation between Kaiser effect levels and pre-stresses applied in the laboratory**
TUNCAY E., ULUSAY R.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.45, no.4, pp.524-537, 2008 (SCI-Expanded)
- XXXVI. **A study on the identification of liquefaction-induced failures on ground surface based on the data from the 1999 Kocaeli and Chi-Chi earthquakes**
Sonmez B., ULUSAY R., Sonmez H.
ENGINEERING GEOLOGY, vol.97, pp.112-125, 2008 (SCI-Expanded)
- XXXVII. **Evaluation of ground deformations induced by the 1999 Kocaeli earthquake (Turkey) at selected sites on shorelines**
Aydan O., ULUSAY R., Atak V. O.
ENVIRONMENTAL GEOLOGY, vol.54, no.1, pp.165-182, 2008 (SCI-Expanded)
- XXXVIII. **Liquefaction potential at Izmit Bay: comparison of predicted and observed soil liquefaction during the Kocaeli earthquake**
Sonmez B., ULUSAY R.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.67, no.1, pp.1-9, 2008 (SCI-Expanded)
- XXXIX. **Characterization of weathered acidic volcanic rocks and a weathering classification based on a rating system**
Arikan F., Ulusay R., Aydin N.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.66, no.4, pp.415-430, 2007 (SCI-Expanded)
- XL. **Liquefaction assessments by field-based methodologies: foundation soils at a dam site in Northeast Turkey**
Ulusay R., Tuncay E., HASANCEBI N.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.66, no.3, pp.361-375, 2007 (SCI-Expanded)
- XLI. **Empirical correlations between shear wave velocity and penetration resistance for ground shaking assessments**
Hasancebi N., Ulusay R.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.66, no.2, pp.203-213, 2007 (SCI-Expanded)
- XLII. **Geotechnical assessment of the 2005 Kuzulu landslide (Turkey)**
Ulusay R., Aydan O., Kilic R.
ENGINEERING GEOLOGY, vol.89, pp.112-128, 2007 (SCI-Expanded)
- XLIII. **Stability of spoil piles at two coal mines in Turkey: Geotechnical characterization and design considerations**
Kasmer O., Ulusay R.
ENVIRONMENTAL & ENGINEERING GEOSCIENCE, vol.12, no.4, pp.337-352, 2006 (SCI-Expanded)
- XLIV. **Evaluation of site amplification and site period using different methods for an earthquake-prone settlement in Western Turkey**
Hasancebi N., Ulusay R.
ENGINEERING GEOLOGY, vol.87, pp.85-104, 2006 (SCI-Expanded)
- XLV. **Assessment of environmental and engineering geological problems for the possible re-use of an abandoned rock-hewn settlement in Urgup (Cappadocia), Turkey**
Ulusay R., Gokceoglu C., TOPAL T., Sonmez H., Tuncay E., ERGULER Z. A., KASMER O.
ENVIRONMENTAL GEOLOGY, vol.50, no.4, pp.473-494, 2006 (SCI-Expanded)

- XLVI. **Reply to Discussion by G. Kalkan and P. Gülkan on “Attenuation relationship based on Turkish strong motion data and iso-acceleration map of Turkey” by Ulusay et. al., Eng. Geol., 74: 265-291 (2004)**
ULUSAY R., TUNCAY E., GÖKÇEOĞLU C., SÖNMEZ H.
ENGINEERING GEOLOGY, vol.79, pp.291-292, 2005 (SCI-Expanded)
- XLVII. **An attenuation relationship based on Turkish strong motion data and iso-acceleration map of Turkey**
ULUSAY R., Tuncay E., SONMEZ H., GOKCEOGLU C.
ENGINEERING GEOLOGY, vol.74, pp.265-291, 2004 (SCI-Expanded)
- XLVIII. **An overview of geotechnical aspects of the Cay-Eber (Turkey) earthquake**
Ulusay R., AYDAN O., ERKEN A., Tuncay E., KUMSAR H., KAYA Z. B.
ENGINEERING GEOLOGY, vol.73, pp.51-70, 2004 (SCI-Expanded)
- XLIX. **Predicting intact rock properties of selected sandstones using petrographic thin-section data**
ZORLU K., ULUSAY R., OCAKOGLU F., Gokceoglu C., SONMEZ H.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.41, no.3, pp.370-371, 2004 (SCI-Expanded)
- L. **An application of fuzzy sets to the Geological Strength Index (GSI) system used in rock engineering**
SONMEZ H., Gokceoglu C., ULUSAY R.
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- LI. **Akustik Emisyon (AE) tekniği: 2- AE tekniğiyle Türkiye'de arazi gerilmelerinin belirlenmesi konusunda bir ön inceleme**
TUNCAY E., ULUSAY R., WATANABE H., TANO H., AYDAN O., Yüzer E.
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- LII. **Akustik Emisyon (Yayıma) (AE) tekniği: 1- AE'nin Temel ilkeleri ve kaya mühendisliğindeki uygulama alanları**
TUNCAY E., ULUSAY R.
Yerbilimleri/Hacettepe Üniversitesi Yerbilimleri Uygulama ve Araştırma Merkezi Dergisi, vol.25, pp.65-82, 2002 (SCI-Expanded)
- LIII. **Draft ISRM suggested method for determining block punch strength index (BPI)**
ULUSAY R., Gokceoglu C., SULUKCU S.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.38, no.8, pp.1113-1119, 2001 (SCI-Expanded)
- LIV. **Deterministic and probabilistic treatments of multiplanar pitwall failures at Himmetoglu (Turkey) coal mine**
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CANADIAN GEOTECHNICAL JOURNAL, vol.38, no.4, pp.828-849, 2001 (SCI-Expanded)
- LV. **Causes, mechanism and environmental impacts of instabilities at Himmetoglu coal mine and possible remedial measures**
ULUSAY R., Gokceoglu C., SONMEZ H., TUNCAY E.
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- LVI. **Factors affecting the durability of selected weak and clay-bearing rocks from Turkey, with particular emphasis on the influence of the number of drying and wetting cycles**
Gokceoglu C., ULUSAY R., SONMEZ H.
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- LVII. **Süreksizlik denetimli şev duraysızlıklarının değerlendirilmesinde olasılığa dayalı kinematik analiz yaklaşımı ve bir uygulama**
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- LVIII. **A practical procedure for the back analysis of slope failures in closely jointed rock masses**
SONMEZ H., ULUSAY R., Gokceoglu C.

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LIX. **The modified block punch index test**

ULUSAY R., Gokceoglu C.

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Articles Published in Other Journals

I. **Preliminary report of field reconnaissance on the 6 February 2023 Kahramanmaraş Earthquakes in Türkiye**

Yan K., Miyajima M., Kumsar H., Aydan Ö., Ulusay R., Tao Z., Chen Y., Wang F.

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II. **Faulting by the 2023 great earthquakes of Türkiye and associated stress field and its effects on built environment**

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Books & Book Chapters

I. **Kaya Mekaniği Laboratuvar Deneyleri Rock Mechanics Laboratory Experiments**

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Jeoloji Mühendisleri Odası Yayını, Ankara, 2011

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I. **A Study on Model Experiments and Numerical Simulations on Rockfalls and Its Utilization to Assess the Rockfall Hazards in Miyagi Island (Japan) and Cappadocia (Turkey)**

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II. **TKİ Hüsamlar linyit açık işletmesi güney şevlerindeki duraysızlık mekanizmaları**

SOLAK K. C., TUNCAY E., ULUSAY R.

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III. **Geo-engineering Aspects of the Van Earthquakes (Turkey) of October and November 2011 and Associated Geotechnical Damages**

ULUSAY R., KUMSAR H., Aydan O.

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IV. **Rock Mass Quality Rating (RMQR) System and Its Application to the Estimation of Geomechanical Characteristics of Rock Masses**

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- First Collaborative Symposium of Turk-Japan Civil Engineers, İstanbul, Turkey, 05 June 2008, vol.1, pp.107-116
- VII. **Kapadokya Bölgesi'nde antik ve güncel kaya yapılarının kaya mekaniği açısından değerlendirilmesi**
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- VIII. **Türkiye'ye ait veriler esas alınarak önerilmiş SPT-CPT ilişkileri**
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- IX. **Doğu Karadeniz Bölgesindeki bir baraj yerinde sıvılaşma potansiyelinin farklı yöntemlerle değerlendirilmesi**
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- X. **Comparisons between Kaiser Effect levels and pre-stresses applied to rock specimens in laboratory conditions**
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