

STREQ1

| Structural Engineering and Earthquake Engineering Session 1; 17 October 2012 12:00-13:30 Hall: Kemal Kurdaş | | |
|---|--|--|
| Session Chair : Michael Fardis | | |
| Abstract Number | Title | Authors |
| 1254 | Lateral Load Behavior of Low-Rise Structural Walls | Kutay Orakçal, Tevfik Terzioğlu, Leonardo M. Massone |
| 298 | Experimental Investigation of RC Columns Strengthened with Carbon Fiber-Reinforced Polymer and Ferrocement | Bayar J. Al-Sulyfani, Mohamad Najim Mahmood, Salwa M. Abdullah |
| 95 | Behaviour of RC framed building with different types of knee brace systems | Esra Mete Güneyisi, Ayşegül Gültekin |
| 361 | Lap Splice Behavior of Self Compacting Concrete | Erdem Canbay, Mehran Ghasabeh |
| 332 | Investigation of Lateral Pressures Considering Silo Wall-Grain Interaction with the Comparison of Numerical and Analytical Methods | Zeki Karaca, Eprar Özel |
| 540 | Behavior of Reinforced Concrete Slabs Subjected to Impact Loading | Selçuk Saatçi, Baturay Batarlar |

STREQ2

| Structural Engineering and Earthquake Engineering Session 2; 17 October 2012 15:30-17:00 Hall: Kemal Kurdaş | | |
|---|--|---|
| Session Chair : Ayşe Daloğlu | | |
| Abstract Number | Title | Authors |
| 798 | Evaluation of an Existing Reinforced Concrete Building Damaged Under Its Own Weight | Ahmet Yakut, Atilla Bayraktar, Hasan Hüsnü Korkmaz |
| 893 | Fire Analysis of Reinforced Concrete Columns with Different Methods | Oğuz Burnaz, Ahmet Durmuş |
| 634 | An Investigation on Torsional Behavior of RC Beams Strengthened With CFRP | Bayar Jaafar Al-Sulayfani, Khalaf İbrahim Mohammad |
| 1224 | Comparison of Seismic Retrofit Methods for Nonductile RC Structures by Using Pseudo Dynamic Testing Procedures | Ramazan Özçelik, Efe Kurt, Barış Binici, Özgür Kurç, Erdem Canbay, Güney Özcebe |
| 746 | Empirical Determination of the Fundamental Period of Vibration of Multi Storey RC Buildings | Hamdy A. Elgohary |
| 654 | An Experimental Study on a Hybrid Precast Concrete Beam-Column Connection | Eray Baran, Mehmet Baran, Metin Kurtoğlu |

STREQ3

| Structural Engineering and Earthquake Engineering Session 3; 17 October 2012 17:30-19:00 Hall: Kemal Kurdaş | | |
|---|---|--|
| Session Chair : Eray Baran | | |
| Abstract Number | Title | Authors |
| 1000 | Stability Analysis of Semi-Rigid Frames with Rigid End Sections Accounting for Shear Deformations | Halil Görgün, Sercan Kaymak |
| 1209 | Post Buckling Behavior Of A Spherical Cap Subjected To Various Ring Loads | Cengiz Polat, Yusuf Calayır |
| 1445 | The Effect of Temperature on the Behavior of Laminated Glass Cylindrical Shell Structures | Ebru Dural, M. Zülfü Aşık |
| 556 | Analytical Solution of Isotropic Deep Rectangular Beam Using Displacement Potential Functions | Saba Rashidi, Bahram Navayi-Neya, Mehdi Nematzadeh |
| 1030 | Finite Element Modelling Techniques of Steel Latticed Transmission Towers | Ömer Burak Yücel, Oğuzhan Hasançebi, Cenk Tort |

STREQ4

| Structural Engineering and Earthquake Engineering Session 4; 18 October 2012 10:00-11:30 Hall: Kemal Kurdaş | | |
|---|---|---|
| Session Chair : Trevor Haas | | |
| Abstract Number | Title | Authors |
| 1028 | Assessment of Seismic Behavior and Dynamic Characteristics of R/C Frames Enhanced with Mesh Reinforced Infill Walls under Consecutive Earthquake Loadings | Pourang Ezzatfar, Güney Özcebe, Barış Binici, Erdem Canbay, Özgür Kurç |
| 750 | Effects of Fiber Orientation on the Flexible Behavior of Reinforced UHPC Girders | Changbin Joh, Jungwoo Lee, In Hwan Yang, Byung Suk Kim |
| 934 | Reliability Estimation Using Vibration-Based Identified Structural Parameters | Ekin Özer, Serdar Soyöz |
| 694 | Assessment of Seismic Soil-Foundation-Structure Interaction Analysis Procedures for Long-Span Bridges using Recorded Strong Motion Data | Anoosh Shamsabadi, Steve Mitchell, Pat Hipley, Jinxing Zha, Roshanak Omrani, S. Farid Ghahari, Fariba Abazarsa, Ertuğul Taciroğlu |
| 1328 | Tensile Behavior of Chemical Anchors Embedded to Low Strength Concrete | Muhammet Ali Özen, Salih Yılmaz |
| 1345 | Inelastic Modeling of Reinforced Concrete Beam-to-Column Connections | Burcu Burak, Mehmet Ünal |

STREQ5

| Structural Engineering and Earthquake Engineering Session 5; 18 October 2012 12:00-13:30 Hall: Kemal Kurdaş | | |
|---|---|--|
| Session Chair : Ertuğrul Taciroğlu | | |
| Abstract Number | Title | Authors |
| 1355 | Cyclic Characterization of Locked and Standard Brick Infilled Reinforced Concrete Frames under Quasi-Static Loading Conditions: Experimental Work | İbrahim Serkan Mısır, Özgür Özçelik, Sadık Can Girgin, Murat Arda Uğurlu, Serap Kahraman, Türkay Baran |
| 794 | Decreasing Hydrodynamic Pressures on Arch Dams Using Air Curtain | Mohsen Lamea, Hasan Mirzabozorg, Hamid Sehat |
| 799 | Application of Timoshenko Beam Theory in Interaction of Non-Prismatic Dam, Reservoir and Elastic Foundation | Mahmoud Abdollahi, Amirhossein Bagheri, Reza Attarnejad |
| 1075 | Two and Three Dimensional Nonlinear Dynamic Analysis of an RCC Dam | Alper Aldemir, Barış Binici, Yalın Arıcı, Uğur Akpınar |
| 1351 | Determination of Parameters Affecting the Linear Seismic Evaluation of Gravity Dams | Arash Monazzam, Hamed Enayati, Mohsen Ghaemian |
| 132 | A Smeared Crack Model for Dynamic Analysis of Gravity Dam-Reservoir-Foundation Coupled System | Mahdi Kolbadi, Hasan Mirzabozorg, Mohammad Amin Hariri-Ardebili, Masood Heshmati |

STREQ6

| Structural Engineering and Earthquake Engineering Session 6; 18 October 2012 15:30-17:00 Hall: Kemal Kurdaş | | |
|---|---|---|
| Session Chair : Özgür Avcı | | |
| Abstract Number | Title | Authors |
| 1429 | Determining Rotational Joint Stiffness Using Finite Element Analysis | Heindrich L. Albertyn, Trevor N. Haas |
| 484 | A Finite Element Study on the Effective Width of Flanged Sections | Sertaç Küçükarslan, Mehmet Utku |
| 976 | Approximate Buckling Solutions for Rectangular Plates under Intermediate and End Uniaxial Loads | Magdy Israel Salama |
| 563 | Solution of Structural Mechanics Problems Using Iterative Methods | Sami And Kilic |
| 610 | An Extensible Parallel Finite Element Analysis Environment: Panthalassa | Tunç Bahçecioğlu, Utku Albostan, Özgür Kurç |

STREQ7

| Structural Engineering and Earthquake Engineering Session 7; 18 October 2012 17:30-19:00 Hall: Kemal Kurdaş | | |
|---|---|---|
| Session Chair : Sami And Kılıç | | |
| Abstract Number | Title | Authors |
| 1071 | Pseudo-Dynamic Testing and Numerical Simulations of Reinforced Concrete Frames | Mehmet Başar Mutlu, Mehmet Engin Ayatar, Pourang Ezzatfar, Barış Binici, Özgür Kurç, Erdem Canbay, Haluk Sucuoğlu, Güney Özcebe |
| 1051 | Investigation of Safety of Connection Region in Hinge Jointed Precast Buildings | Mehmet Palanci, Şevket Murat Şenel, Ali Kalkan, Yasin Yılmaz |
| 895 | Structural Analyses of Reinforced Concrete Continuous Beams According to Fires | Oğuz Burnaz, Ahmet Durmuş |
| 656 | Determination of Plastic Energy Consumption Using Strains in RC Sections | Onur Merter, Özgür Bozdağ, Mustafa Düzgün |
| 999 | Performance of Flat Plates Strengthened with Partially Bonded Fiber Laminates | Hakan Erdoğan, Şevket Özden, Hilal Meydanlı Atalay, Erkan Akpınar |
| 1228 | Near Surface Mounted CFRP bars for Retrofitting RC Beams | H. Murat Tanarslan |

STREQ8

| Structural Engineering and Earthquake Engineering Session 8; 19 October 2012 10:00-11:30 Hall: Kemal Kurdaş | | |
|---|--|---|
| Session Chair : Mehmet Cemal Genes | | |
| Abstract Number | Title | Authors |
| 325 | A Mixed FEM Solution for Natural Frequencies of Laminated Moderately Thick Elliptical Plates | Akif Kutlu, Mehmet Hakkı Omurtag |
| 370 | A New Computational Method for the Assessment of URM Buildings | İsmail Ozan Demirel, Alper Aldemir, Murat Altuğ Erberik |
| 454 | Optimum Design of Steel Space Frames by Artificial Bee Colony Algorithm | İbrahim Aydoğdu, Alper Akın, Mehmet Polat Saka |
| 741 | Continuous Contact Problem for Two Elastic Layers Loaded by Means of a Rigid Circular Punch and Resting on Elastic Half Infinite Plane | Erdal Öner, Ahmet Birinci |
| 778 | Effect of Deck Plate Thickness on the Structural Behavior of Steel Orthotropic Highway Bridges | Abdullah Fettahoglu |
| 938 | Nonlinear Analysis Of A Three Dimensional Mixed Formulation Frame Finite Element That Is Based On Hu-Washizu Functional | Ozan Soydaş, Afşin Sarıtaş |

STREQ9

| Structural Engineering and Earthquake Engineering Session 9; 19 October 2012 14:30-16:00 Hall: Kemal Kurdaş | | |
|---|--|---|
| Session Chair : Kadir Güler | | |
| Abstract Number | Title | Authors |
| 72 | Free Vibration of Variable Thickness Cylindrical Shell Using Wittrick-Williams Algorithm | Nihal Husien Fuad Elkaabazi |
| 101 | Dynamic Analysis of Viscoelastic Cylindrical Helixes Subjected to Impulsive-Sinusoidal Load by Using the Finite Element Method | Hakan Argeso, Faruk Fırat Çalım, Nihal Eratlı, Mehmet Hakkı Omurtag |
| 124 | The Stability Analysis of FGM-Metal-FGM Layered Cylindrical Shells Under a Lateral Pressure | Abdullah Sofiyev, Zihni Zerin, Ali Deniz, Mehmet Avcar, Polat Özyiğit, Basri Mert Tuğlu |
| 229 | Effect of Stacking Sequence and Orientation on the Dynamic Response of Fiber Metal Laminate Plates | Cenk Aksoylar, Mehmet Hakkı Omurtag |
| 259 | Hunting Search Algorithm Based-Design Optimization of Moment Resisting Steel Frames | Erkan Doğan, Mehmet Polat Saka |
| 334 | Performance of Optimum Tuned Mass Dampers According to Number of Structure Storey | Gebrail Bekdaş, Sinan Melih Niğdeli |

STREQ10

| Structural Engineering and Earthquake Engineering Session 10; 19 October 2012 16:30-18:00 Hall: Kemal Kurdaş | | |
|--|--|---|
| Session Chair : Kağan Tuncay | | |
| Abstract Number | Title | Authors |
| 206 | Active Tendon Control of Structures under Near-Fault Ground Motion Excitation | Sinan Melih Niğdeli, M. Hasan Boduroğlu |
| 167 | Effect of SSI on the Response of Seismic Isolated Bridges Subjected to Near-Field Ground Motions | Gökhan Özdemir, Berna Unutmaz |
| 1377 | Evaluation of Inelastic Displacement Demand Determination Approach of Turkish Earthquake Code 2007 | Mehmet Palancı, Şevket Murat Şenel |
| 330 | Optimum Tuned Mass Damper Design for Structures at Near and Far Fault Regions | Sinan Melih Niğdeli, Gebrail Bekdaş |
| 1286 | Evaluation of Preliminary Assessment Procedures for Reinforced Concrete School Buildings in Turkey | Levent Mazılıgüney, Ahmet Yakut, Koray Kadaş, İlker Kalem |
| 1019 | Vulnerability Assessment of Two Instrumented Masonry Buildings in Antakya (Hatay, Turkey) | Mehmet Cemal Genes, Murat Altuğ Erberik, Lars Abrahamczyk, Polat Gülkan, Murat Bikçe, Selçuk Kaçın, Ahmet Yakut, Jochen Schwarz |

STREQ11

| Structural Engineering and Earthquake Engineering Session 11; 17 October 2012 12:00-13:30 Hall: C | | |
|---|---|---|
| Session Chair : İhsan Bal | | |
| Abstract Number | Title | Authors |
| 190 | Comparison of Temperature Rises in the Lead Core of LRBs under both Uni- and Bi-directional Earthquake Excitations | Gökhan Özdemir, Beyhan Bayhan |
| 730 | Effectiveness of Seismic Isolation in Protecting Sensitive Contents against Near-Fault Earthquakes of Various Magnitudes | Seda Öncü, Cenk Alhan |
| 1103 | An Overturning Moment-Based Adaptive Pushover Procedure for Seismic Evaluation of Shear Wall Structures | Malik Atik, Marwan Sadek, Isam Shahrouh, Ramzi Messahel |
| 201 | Seismic Performance of Bridges Isolated with LRB under Simulated Near-Fault Motions When Lead Core Heating is of Concern | Gökhan Özdemir, Murat Dicleli |
| | Sponsor Presentation: Issues related to design of seismically isolated highspeed railway bridges in proximity of the major faults | Cenan Özkaya, Gülden Çetin, Fikret Tulumtaş |

STREQ12

| Structural Engineering and Earthquake Engineering Session 12; 17 October 2012 15:30-17:00 Hall: C | | |
|---|--|---|
| Session Chair : Kutay Orakçal | | |
| Abstract Number | Title | Authors |
| 622 | Experimental and Numerical Investigation of Wind Effects on Long Span Bridge Decks | Iman Ashtiani Abdi, Anas Abdulrahim, Senem Haser, Oğuz Uzol, Özgür Kurç |
| 625 | Estimation of Wind Loads on Tall Buildings through Wind Tunnel Testing | Bengi Kayışoğlu, Özgür Kurç, Oğuz Uzol |
| 766 | Structural Fire Resistance of Cut and Cover Tunnels | Kemal Sarp Arsava, Alp Caner |
| 1036 | Dynamic Behaviour of Cable-Stayed Bridges under Earthquake and Traffic Loads | Hüseyin Kartal, Kurtuluş Soyluk |
| 1066 | Optimization of Maintenance, Repair and Rehabilitation Actions in a Novel Bridge Management System | Ferhat Akgül, Faraz Masoumi |

STREQ13

| Structural Engineering and Earthquake Engineering Session 13; 17 October 2012 17:30-19:00 Hall: C | | |
|---|--|--|
| Session Chair : Beyhan Bayhan | | |
| Abstract Number | Title | Authors |
| 1442 | Seismic Retrofit of a Typical RC Building in Turkey – Comparison of FRP Technology versus Traditional Techniques | Eleni Smyrou, Michael J. Karantzikis, İhsan E. Bal |
| 218 | Reliability Analysis of Reinforced Concrete Frames Strengthened by Steel Knee Brace | Aziz Hosseinnezhad, Bagher Heidarpour, Bahman Panjalizade |
| 818 | Investigation of the Strength and the Stability Analysis of the Reinforced Concrete Frames with Infill Walls | Xanlar Seyfullayev, Yaşar Uğur, İsa Eyyubov, Cemal Eyyubov |
| 1279 | An Experimental Study of the Jacketed R/C Beams with Precast R/C Plates | Ali Demir, Muhammed Tekin, Muhiddin Bağcı, Ayhan Nuhoğlu |
| 1375 | PEER Performance-Based Earthquake Engineering Methodology: Revisited and Extended to Sustainable Designs | Mehmet Selim Günay, Khalid Mahmoud Mosalam |

STREQ14

| Structural Engineering and Earthquake Engineering Session 14; 18 October 2012 12:00-13:30 Hall: G | | |
|---|---|--|
| Session Chair : Ramazan Özçelik | | |
| Abstract Number | Title | Authors |
| 149 | Use of Steel Plate Shear Walls for Seismic Retrofit of a Steel Building | Cüneyt Vatanserver, Cavidan Yorgun, Noyan Özel |
| 385 | Role of Energy Dissipation and Deformation of Elements in Seismic Analysis of Steel Moment Frames | Kourosh Mahdizadeh, Sima Abedi, Ali Akbar Alishahi |
| 392 | Effect of Using EGS on the Seismic Behavior of Knee Braced System | Mussa Mahmoudi, Amin Havarani |
| 494 | Using Push Test to Investigate the Applicability of Newly Suggested TR Perfobond Connector | Suhaib Yahya Kasim Al-Darzi, İnas Mahmood A. Al-Juboory |
| 1358 | An Investigation on the Behavior of Column-Tree Steel Joints in Fire | Mehdi Mohammadzadeh Akhlaghi, Seyed Mehdi Zahrai, Mehdi Ghassemieh |
| 580 | Behavior of Steel Frames to Impact Damage with the Progressive Removal of Two Internal and External Columns | Ali Hadidi, Sajad Mahmoudi, Kamran Rahmati-Shadbad |

STREQ15

| Structural Engineering and Earthquake Engineering Session 15; 18 October 2012 17:30-19:00 Hall: F | | |
|---|--|---|
| Session Chair : Cem Topkaya | | |
| Abstract Number | Title | Authors |
| 564 | Effects of Structure-to-soil Mass Ratio on Elastic and Inelastic Earthquake Response Spectra Considering SSI | Oğuz Can Öğüt, Abdullah Necmettin Gündüz |
| 754 | Comparing the Efficiency of Intensity Measures for Estimating the Response of Seismic-Isolated Bridges | Özgür Avşar, Gökhan Özdemir |
| 1132 | Re-examination of a Spectral Ground Motion Intensity Measure Based on Predicted Period Elongation | Koray Kadaş, Ahmet Yakut |
| 1253 | Stochastic Ground Motion Simulations for Istanbul, Turkey | Esra Zengin, Eser Çaktı |
| 1165 | Modern Aseismic Isolation Based on Friction and Superelasticity | Peyman Narjabadifam, Hossein Ghaffarzadeh |

STREQ16

| Structural Engineering and Earthquake Engineering Session 16; 19 October 2012 10:00-11:30 Hall: F | | |
|---|--|--|
| Session Chair : Gökhan Özdemir | | |
| Abstract Number | Title | Authors |
| 188 | Localizing Structural Damage using Static and Dynamic Damage Locating Vector Methods | Burcu Güneş, Oğuz Güneş |
| 1437 | Monitoring of super load passage over highway bridges in Turkey | Ahmet Türer, Alvand Mehrabzade, Serkan Bodur |
| 1439 | Performance Evaluation of a Long Span Bridge Before and After Retrofit | H. Burak Gökçe, F. Necati Çatbaş |
| 43 | Effect of Reinforce Concrete Core Shear Wall on relative drift and torsion stiffness of reinforced concrete tall buildings | Seyed Mojtaba Ghoreishamiri |
| 1108 | Redesigning of an Air Freight Terminal for Safety Check: Case Study | Fatih Yılmaz, Ayşe Daloğlu |

STREQ17

| Structural Engineering and Earthquake Engineering Session 17; 19 October 2012 14:30-16:00 Hall: C | | |
|---|--|--|
| Session Chair : Burcu Güneş | | |
| Abstract Number | Title | Authors |
| 1436 | Structural monitoring of space truss systems | Alper Ö. Gür, Ahmet Türer, Ali Faik Ulusoy, Gürkan Akdoğan |
| 232 | Experimental Modal Analysis of a Three-Story Steel Frame with Bolted Flange Joints | Maziar Mahdavi, Mohammad Reza Davoodi, Amin Mostafavian |
| 366 | Detecting Damages in Beams Using Hilbert-Huang Transform | Hürmet Küçükğöncü, Kamil Aydın |
| 394 | Application of (Probabilistic) Structural Reliability Model Incorporating Health Monitoring in Condition Assessment of Reinforced Concrete Structure under Corrosion | Fahimeh Jalalifar, Amir Tarighat |
| 630 | Artificial Neural Network (ANN) Model for Damage Detection of a Concrete Multi-Span Bridge | Maryam Freidooni, Amir Tarighat |

STREQ18

| Structural Engineering and Earthquake Engineering Session 18; 19 October 2012 16:30-18:00 Hall: C | | |
|---|--|---|
| Session Chair : Hakan Erdoğan | | |
| Abstract Number | Title | Authors |
| 51 | Out-of-plane behavior of unreinforced masonry and aerated concrete walls strengthened with cfrp strips | Nalan Bulut, Özgür Anıl |
| 593 | Shear Behavior of Masonry Wall Strengthening with Fiber Reinforced Mortar Stucco | Bengi Arısoy, Celal Kozanoğlu, Emre Ercan, Ali Demir |
| 874 | Assessment of historical masonry buildings in Istanbul | Fuat Aras |
| 941 | Nonlinear Behavior of Industrial Masonry Chimneys to Blast- Induced Ground Vibration | Kemal Hacıfendioğlu, Emre Alpaslan, Gökhan Saracoğlu |
| 1443 | Design Examples of a Textile Mortar System for Strengthening of Historical Masonry Structures | Christoforos Kolyvas, İhsan E. Bal, Antonios Bernakos, Thanasis Triantafyllou |

STREQ POSTER

| Structural Engineering and Earthquake Engineering Poster Session | | |
|--|--|---|
| Abstract Number | Title | Authors |
| 228 | The Influence of Strong-Motion Duration on Inelastic Structural Response | Mohsen Gerami, Kimia Mortezaei, Mohammad Kazem Rezaei, Mahsa Joshan |
| 824 | Behavior of steel columns subjected to fire | Nadia Benmehidi, Jean Marc Franssen, Mohamed Guenfoud |
| 1046 | Analytical study on converting intermediate links to short links by implementing supplemental stiffeners in steel EBFs with links next to the column | Saman Zarsav, Asghar Vatani Oskouei |
| 1243 | Evaluation of Condition States of Bridge Elements Based on the Intensity of Different Damage Types | Faraz Masoumi, Ferhat Akgül |
| 1281 | Seismic Evaluation of Multi-Storey Moment-Resisting Steel Frames with Mass Irregularities Using Standard and Advanced Pushover Methods | Gabriel Tarta, George Mihail Barsan |
| 1302 | An Improved Equivalent Frame Method for the Analysis of Two-way Slab Systems Subjected to Gravity and Lateral Loads | Elias Abdoli Oskoui, Iraj Mahmoudzadeh Kani |