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At the back Spotlight on Structures

Spotlight on Structures Research Journal of The Institution of Structural Engineers

In this section we shine a spotlight on papers recently published in *Structures* – the Research Journal of The Institution of Structural Engineers.

Structures is a collaboration between the Institution and Elsevier, publishing internationally-leading research across the full breadth of structural engineering which will benefit from wide readership by academics and practitioners.

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Volume 6

Structures Volume 6 (May 2016) has recently been published online.

Editor's highlights

The Editor-in-Chief has selected the following highlights:

Construction Details and Observed Earthquake Performance of Unreinforced Clay Brick Masonry Cavity-walls

Marta Giaretton, Dmytro Dizhur, Francesca da Porto and Jason M. Ingham http://dx.doi.org/10.1016/j. istruc.2016.04.004

Finite element modeling of structural steel component failure at elevated temperatures

Mina Seif, Joseph Main, Jonathan Weigand, Therese P. McAllister and William Luecke http://dx.doi.org/10.1016/j. istruc.2016.03.002

Influence of a Deformable Contour Ring on the Nonlinear Dynamic Response of Cable Nets

Isabella Vassilopoulou and Charis J. Gantes http://dx.doi.org/10.1016/j. istruc.2016.02.007

Full issue

The issue also contains the following articles:

Effect of the thickness of concrete cover on the fatigue bond strength of GFRP wrapped and non-wrapped reinforced concrete beams containing a lap splice Rayed Alyousef, Tim Topper and Adil Al-Mayah

http://dx.doi.org/10.1016/j.istruc.2016.01.001

Buckling and post buckling characteristics of laminated composite

plates with damage under thermomechanical loading

V.M. Sreehari and D.K. Maiti http://dx.doi.org/10.1016/j.istruc.2016.01.002

Robustness analysis of 3D Composite buildings with semi-rigid joints and floor slab

S. Jeyarajan and J.Y. Richard Liew http://dx.doi.org/10.1016/j.istruc.2016.01.005

Analytical Modeling in Deformation Analysis of Interference-Fit Structures Nelli Aleksandrova http://dx.doi.org/10.1016/j.istruc.2016.01.003

Design implications of a new load introduction mechanism into concretefilled steel tubular columns Mohammad H. Mollazadeh and Yong C.

Wang http://dx.doi.org/10.1016/j.istruc.2016.01.004

Slots of Power-Law Profile as Acoustic Black Holes for Flexural Waves in Metallic and Composite Plates

E.P. Bowyer and V.V. Krylov http://dx.doi.org/10.1016/j. istruc.2016.02.002

Seismic performance of composite plate shear walls

Sandip Dey and Anjan K. Bhowmick http://dx.doi.org/10.1016/j.istruc.2016.01.006

Hencky bar-chain model for buckling analysis of non-uniform columns *E. Ruocco, H. Zhang and C.M. Wang*

http://dx.doi.org/10.1016/j.istruc.2016.02.003

Influence of soil-structure interaction on fragility assessment of building structures *Chara Ch. Mitropoulou, Christos* Kostopanagiotis, Markos Kopanos, Dennis loakim and Nikos D. Lagaros http://dx.doi.org/10.1016/j.istruc.2016.02.005

Refined spatial beam-column element for second-order analysis of lattice shell structure

Lin Qi and Yang Ding http://dx.doi.org/10.1016/j.istruc.2016.02.001

Second-order analysis of non-prismatic steel members by tapered beam-column elements *Si-Wei Liu, Rui Bai and Siu-Lai Chan* http://dx.doi.org/10.1016/j.istruc.2016.02.006

Review on recent developments in the performance-based seismic design of reinforced concrete structures

Mohd. Zameeruddin and Keshav K. Sangle http://dx.doi.org/10.1016/j.istruc.2016.03.001

A general characterization of the Hardy Cross method as sequential and multiprocess algorithms John Baugh and Shu Liu http://dx.doi.org/10.1016/j.istruc.2016.03.004

Impact Statement on "Partial Safety Factor for Reinforcement"

Andrew Beeby and Paul Jackson http://dx.doi.org/10.1016/j. istruc.2016.02.004

Corrigendum to "Improved formulation of travelling fires and application to concrete and steel structures" [Structures 3 (2015) 250–260]

Egle Rackauskaite and Guillermo Rein http://dx.doi.org/10.1016/j. istruc.2016.03.003