

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.

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Volume 8, Part 1

The latest issue of *Structures*, Volume 8, Part 1 (November 2016), has recently been published online.

Editor's highlights

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

A Numerical Solution for the Shape of Fabric-formed Concrete Structures

Robert M. Foster and Tim J. Ibell

<http://dx.doi.org/10.1016/j.istruc.2016.08.003>

Study on the Bending Capacity of Cold-formed Stainless Steel Hollow Sections

Baofeng Zheng, Ganping Shu, Lianchun Xin, Ran Yang and Qinglin Jiang

<http://dx.doi.org/10.1016/j.istruc.2016.08.007>

Construction aerodynamics of cable-stayed bridges for record spans: Stonecutters Bridge

S.H. Robin Sham and Tom A. Wyatt

<http://dx.doi.org/10.1016/j.istruc.2016.08.010>

Full issue

The issue also contains the following articles:

Seismic Behaviour of Outrigger Braced Systems in High Rise 2-D Steel Buildings

Dhanaraj M. Patil and Keshav K. Sangle

<http://dx.doi.org/10.1016/j.istruc.2016.07.005>

Effect of Inconsistent Diaphragms on Exterior Girder Rotation During Overhang Deck Construction

Md Ashiquzzaman, Li Hui, Ahmed Ibrahim, Will Lindquist, Mark Thomson and Riyadh Hindi

<http://dx.doi.org/10.1016/j.istruc.2016.08.002>

Slender steel columns: How they are affected by imperfections and bracing stiffness

Anders Klasson, Roberto Crocetti and Eva Frühwald Hansson

<http://dx.doi.org/10.1016/j.istruc.2016.08.004>

Nailed Steel Plate Connections: Strength and Ductile Failure Modes

R. Crocetti, P.J. Gustafsson, U.A. Girhammar, L. Costa and A. Asimakidis

<http://dx.doi.org/10.1016/j.istruc.2016.07.003>

Experimental Study of Interfacial Stress Distribution of Bonded-in BFRP Rod Glulam Joints Using Fibre Optic Sensors (FOS)

David Yeboah, Su Taylor and Danny McPolin

<http://dx.doi.org/10.1016/j.istruc.2016.08.006>

Modeling of circular concrete-filled steel tubes subjected to cyclic lateral loading

Dionisios N. Serras, Konstantinos A. Skalomenos, George D. Hatzigeorgiou and Dimitri E. Beskos

<http://dx.doi.org/10.1016/j.istruc.2016.08.008>

Vectorised graphics processing unit accelerated dynamic relaxation for bar and beam elements

Andrew Liew, Tom VanMele and Philippe Block

<http://dx.doi.org/10.1016/j.istruc.2016.09.002>

Effect of Notch Depth & Location on Modal Natural Frequency of Cantilever Beams

Shravan H. Gawande and Rudesh R. More

<http://dx.doi.org/10.1016/j.istruc.2016.09.003>

Numerical Study of Deconstructable Flush End Plate Composite Joints to Concrete-filled Steel Tubular Columns

Abdolreza Ataei and Mark A. Bradford

<http://dx.doi.org/10.1016/j.istruc.2016.09.009>

Experimental and Numerical Study on Seismic Behavior of An Infilled Masonry Wall Compared to An Arched Masonry Wall

Amir Hossein Karimi, Mohammad Saeed Karimi, Ali Kheyroddin and Abdulazim Amir Shahkarami

<http://dx.doi.org/10.1016/j.istruc.2016.09.012>

Impact Statement on “Advanced Materials for Concrete-Filled Tubular Columns and Connections”

Ana Espinos, Manuel L. Romero, Antonio Hospitaler, Ana M. Pascual and Vicente Albero

<http://dx.doi.org/10.1016/j.istruc.2016.09.001>

Volume 8, Part 2

Part 2 of this issue will comprise a special section devoted to the Eight International Conference on Advances in Steel Structures, held in Lisbon in July 2015. Look out for publication imminently.