

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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Articles in press

The following articles have recently been made available online:

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

Mohd. Zameeruddin and Keshav K. Sangle, Department of Structural Engineering, Veermata Jijabai Technological Institute, Matunga, Mumbai, India
<http://dx.doi.org/10.1016/j.istruc.2016.03.001>

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

Isabella Vassilopoulou and Charis J. Gantes, Institute of Steel Structures, School of Civil Engineering, National Technical University of Athens, Greece
<http://dx.doi.org/10.1016/j.istruc.2016.02.007>

Parametric Characterization of RC Bridges for Seismic Assessment Purposes

Claudia Zelaschi^a, Ricardo Monteiro^b and Rui Pinho^c
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^b Institute for Advanced Study (IUSS) of Pavia, Pavia, Italy
^c Civil Engineering and Architecture Department, University of Pavia, Pavia, Italy
<http://dx.doi.org/10.1016/j.istruc.2016.04.003>

Seismic behavior of RC building structures designed according to current codes

A. Mosleh^a, H. Rodrigues^b, H. Varum^c, A. Costa^a and A. Arêde^c
^a RISCO, Civil Engineering Department, University of Aveiro, Aveiro, Portugal
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<http://dx.doi.org/10.1016/j.istruc.2016.04.001>

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

Marta Giaretton^a, Dmytro Dizhur^b, Francesca da Porto^a and Jason M. Ingham^b
^a Department of Civil, Environmental & Architectural Engineering, University of Padova, Padova, Italy
^b Department of Civil & Environmental Engineering, University of Auckland, Auckland, New Zealand
<http://dx.doi.org/10.1016/j.istruc.2016.04.004>

Nominal Curvature Design of Circular HSC Columns Confined with Post-tensioned Steel Straps

Chau Khun Ma^a, Abdullah Zawawi Awang^a, Reyes Garcia^b, Wahid Omar^a and Kypros Pilakoutas^b
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^b Department of Civil and Structural Engineering, The University of Sheffield, Sheffield, UK
<http://dx.doi.org/10.1016/j.istruc.2016.04.002>

A general characterization of the Hardy Cross method as sequential and multiprocess algorithms

John Baugh and Shu Liu, Department of Civil, Construction, and Environmental Engineering, North Carolina State University, Raleigh, NC, USA
<http://dx.doi.org/10.1016/j.istruc.2016.03.004>

Did you know?

The *Structures* website provides information on the most popular articles published in the journal. As of April, the five most read articles were:

Robustness of simple joints in pultruded FRP frames

Jawed Qureshi, J. Toby Mottram and Behrouz Zafari
Volume 3, August 2015
<http://dx.doi.org/10.1016/j.istruc.2015.03.007>

Partial safety factor for reinforcement

Andrew Beeby and Paul Jackson
Volume 5, February 2016
<http://dx.doi.org/10.1016/j.istruc.2015.09.002>

Geometrically and materially nonlinear creep behaviour of reinforced concrete columns

Ehab Hamed and Cynthia Lai
Volume 5, February 2016
<http://dx.doi.org/10.1016/j.istruc.2015.07.001>

Experimental testing of grouted connections for offshore substructures: A critical review

Paul Dallyn, Ashraf El-Hamalawi, Alessandro Palmeri and Robert Knight
Volume 3, August 2015
<http://dx.doi.org/10.1016/j.istruc.2015.03.005>

Performance-based Seismic Design of an Irregular Tall Building – A Case Study

Ali Ruzi Özüygür
Volume 5, February 2016
<http://dx.doi.org/10.1016/j.istruc.2015.10.001>