

Spotlight on Structures

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The latest issue of *Structures* (Volume 19, June 2019) is available at www.sciencedirect.com/journal/structures/vol/19/suppl/C. The issue contains the following articles:

| Article title | Authors | Available at: |
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| Machine Learning for Sustainable Structures: A Call for Data | B. D'Amico, R.J. Myers, J. Sykes <i>et al.</i> | https://doi.org/10.1016/j.istruc.2018.11.013 |
| Proposed EN 1992 tension lap strength equation for good bond | Robert Vollum and Charles Goodchild | https://doi.org/10.1016/j.istruc.2018.10.003 |
| Sway Model for the Lateral Torsional Buckling Analysis of Wooden Twin-beam-deck Systems | Yang Du, Magdi Mohareb and Ghasan Doudak | https://doi.org/10.1016/j.istruc.2018.11.012 |
| Performance of Precast Prestressed Steel-Concrete Composite Panels Under Static Loadings to Replace the Timber Transoms for Railway Bridge | Olivia Mirza, Sukanta Kumer Shill and Jason Johnston | https://doi.org/10.1016/j.istruc.2018.12.001 |
| The Effects on the Bracing Stiffness of Timber Structures of the Stiffness of Its Members | Anders Klasson and Roberto Crocetti | https://doi.org/10.1016/j.istruc.2018.12.003 |
| Present State of Eurocode 2 Variable Strut Inclination Method for Shear Design and Possible Improvement | Oladimeji Benedict Olalusi | https://doi.org/10.1016/j.istruc.2018.11.016 |
| Reinforcing steel fracture identification for a high-performance bridge system | Islam M. Mantawy, Travis Thonstad, David H. Sanders, John F. Stanton and Marc O. Eberhard | https://doi.org/10.1016/j.istruc.2018.11.017 |
| Least Cost Design of Curved Cable-Stayed Footbridges with Control Devices | Fernando Ferreira and Luís Simões | https://doi.org/10.1016/j.istruc.2018.12.004 |
| Multi-objective topology optimization using the Boundary Element Method | Hélio Luiz Simonetti, Valério S. Almeida, Francisco de Assis das Neves and Marcelo Greco | https://doi.org/10.1016/j.istruc.2018.12.002 |
| Steel Building Friction Connection Seismic Performance – Corrosion Effects | Jose Christian Chanchi Golondrino, Gregory Anthony MacRae, James Geoffrey Chase <i>et al.</i> | https://doi.org/10.1016/j.istruc.2018.11.008 |
| Seismic Response and Vulnerability Assessment of Representative Low, Medium and High-rise Buildings in Patna, India | Avik Samanta and Arabinda Swain | https://doi.org/10.1016/j.istruc.2019.01.002 |
| Effects of parameter estimation techniques and uncertainty on the selection of fatigue crack growth model | S. Chowdhury, M. Deeb and V. Zabel | https://doi.org/10.1016/j.istruc.2018.11.018 |
| Rectangular Stress-block Parameters for Fly-ash and Slag Based Geopolymer Concrete | Tung T. Tran, Thong M. Pham and Hong Hao | https://doi.org/10.1016/j.istruc.2019.01.006 |
| Assessment of Cohesive Parameters Using High Dimensional Model Representation for Mixed Mode Cohesive Zone Model | B. Kesava Rao and A.S. Balu | https://doi.org/10.1016/j.istruc.2019.01.004 |

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| A finite element based approach for fatigue life prediction of headed shear studs | Md. Manik Mia and Anjan K. Bhowmick | https://doi.org/10.1016/j.istruc.2019.01.001 |
| Experimental investigation of strengthening reinforced concrete moment resisting frames using partially attached steel infill plate | M. Tahamouli Roudsari, M. Torkaman, A.R. Entezari, H. Rahimi and K. Niazi K. | https://doi.org/10.1016/j.istruc.2019.01.009 |
| Numerical model for the non-linear dynamic analysis of multi-storey structures with semi-rigid joints with specific reference to the Algerian code | S. Koriga, A.N.T. Ihaddoudene and M. Saidani | https://doi.org/10.1016/j.istruc.2019.01.008 |
| Influence of plastic pour-in form on mechanical behavior of concrete | Nwzad Abduljabar Abdulla | https://doi.org/10.1016/j.istruc.2019.01.007 |
| Investigation of Flexural Toughness for Steel-and-Synthetic-Fiber-Reinforced Concrete Pipes | S. Lee, Y. Park and A. Abolmaali | https://doi.org/10.1016/j.istruc.2018.12.010 |
| Post-earthquake Damage Simulation of Two Colonial Unreinforced Clay Brick Masonry Buildings Using the Equivalent Frame Approach | Salvatore Marino, Serena Cattari, Sergio Lagomarsino, Dmytro Dizhur and Jason M. Ingham | https://doi.org/10.1016/j.istruc.2019.01.010 |
| Maximum axial load carrying capacity of Fibre Reinforced-Polymer (FRP) bar reinforced concrete columns under axial compression | Hayder Alaa Hasan, M. Neaz Sheikh and Muhammad N.S. Hadi | https://doi.org/10.1016/j.istruc.2018.12.012 |
| Effects of Higher Modes and Degrees of Freedom (DOF) on Strength Reduction Factor in Reinforced Concrete Frames Equipped With Steel Plate Shear Wall | S. Reza Salimbahrami and Majid Gholhaki | https://doi.org/10.1016/j.istruc.2019.01.015 |
| Losses of prestress in post-tensioned glass beams | Michael Engelmann and Bernhard Weller | https://doi.org/10.1016/j.istruc.2019.01.011 |
| Sheathing Bracing Requirements for Cold-formed Steel Wall Panels: Experimental Investigation | Sivaganesh Selvaraj and Mahendrakumar Madhavan | https://doi.org/10.1016/j.istruc.2019.01.005 |
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| Influence of temperature and relative humidity variations on non-uniform corrosion of reinforced concrete | Aditi Chauhan and Umesh Kumar Sharma | https://doi.org/10.1016/j.istruc.2019.01.016 |
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| Seismic fragility assessment of a multi-span RC bridge in Bangladesh considering near-fault, far-field and long duration ground motions | Md Rashedul Kabir, A.H.M. Muntasir Billah and M. Shahria Alam | https://doi.org/10.1016/j.istruc.2019.01.021 |
| Rehabilitation of Shear Deficient Steel Beams Using BFRP Fabric | Amirreza Bastani, Sreekanta Das and David Lawn | https://doi.org/10.1016/j.istruc.2019.01.019 |
| Tension Lap Splice Length of Reinforcing Bars Embedded in Reactive Powder Concrete (RPC) | Hussein Al-Quraishi, Mahdi Al-Farttoosi and Raad AbdulKhudhur | https://doi.org/10.1016/j.istruc.2018.12.011 |
| Bond strength between corroded steel reinforcement and recycled aggregate concrete | Musab Alhawat and Ashraf Ashour | https://doi.org/10.1016/j.istruc.2019.02.001 |
| Prediction of fatigue failure of steel beams subjected to simultaneous corrosion and cyclic loading | Le Li, Chun-Qing Li and Mojtaba Mahmoodian | https://doi.org/10.1016/j.istruc.2019.02.003 |
| Flexural performance of reinforced concrete beams strengthened with fibre reinforced geopolymer concrete under accelerated corrosion | Mohammed Haloob Al-Majidi, Andreas P. Lampropoulos, Andrew B. Cundy, Ourania T. Tsioulou and Salam Alrekabi | https://doi.org/10.1016/j.istruc.2019.02.005 |

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| Load capacity predictions of continuous concrete deep beams reinforced with GFRP bars | Othman Hameed Zinkaah and Ashraf Ashour | https://doi.org/10.1016/j.istruc.2019.02.007 |
| The effect of correlations among random member properties on structural reliability | Dimos C. Charmpis | https://doi.org/10.1016/j.istruc.2019.02.002 |
| Performance of composite metal deck slabs under impact loading | Fakhreddin Emami and Mohammad Z. Kabir | https://doi.org/10.1016/j.istruc.2019.02.015 |
| Flange-notched wood I-joists reinforced with OSB collars: Experimental investigation and sensitivity analysis | Md Shahnewaz, M. Shahidul Islam, Thomas Tannert and M. Shahria Alam | https://doi.org/10.1016/j.istruc.2019.02.009 |
| Axial-flexural interaction diagram of RPC columns reinforced with steel fibres | Ahmed Al-Tikrite and Muhammad N.S. Hadi | https://doi.org/10.1016/j.istruc.2019.02.008 |
| Dual effect of axial tension force developed in catenary action during progressive collapse of 3D composite semi-rigid jointed frames | Mohamed Ahmed Galal, Milan Bandyopadhyay and Atul Krishna Banik | https://doi.org/10.1016/j.istruc.2019.02.006 |

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