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Bridge Engineering

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Assessing structural efficiency: a study of gravity balanced cable-stay bridges

J. G. A. Croll

Disproportionate collapse of a cable-stayed bridge

M. Domaneschi, G. P. Cimellaro and G. Scutiero

Comparison of the collapse frequency and the probability of failure of bridges

D. Proske

Guidance on hidden defects in bridges in the UK and Ireland

J. Collins, D. Ashurst, J. Webb, P. Sparkes and A. Ghose

Sustainability of bridge maintenance

T. B. Balogun, A. Tomor, J. Lamond, H. Gouda and

C. A. Booth



Improvement of repair mortars using multi-walled carbon nanotubes

M. H. F. de Medeiros, F. Dranka, D. J. Souza and R. A. Medeiros-Junior

Nanosilica-added concrete: strength and its correlation with time-dependent properties

L. Varghese, V. V. L. K. Rao and L. Parameswaran

Effect of magnetite nanoparticles (ferroferri oxide) on discrete concrete properties

I. Mansouri, M. Nejat, S. Shahbazi and A. Karami

Effects of hydrated lime on mechanical behaviour of asphalt concrete at nanoscale

S. Barbhuiya and B. Caracciolo

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Microwave-assisted pilot-scale biodiesel production and engine tests

V. G. Demir, H. Yuksel, H. Koten,

M. Z. Gul and H. S. Soyhan

Application of phase-change material in solar hot-water system

H. Jin, J. Liu, M. Zheng, H. P. Teng and L. P. Wei

Design feasibility of load-bearing masonry building for energy-efficient construction

H. R. Gavali and R. V. Ralegaonkar

Replacing steel members with composite members on transmission towers

J. C. Vergara-Vazquez, I. Ramirez-Vazquez,

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Major and innovative projects in China

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Design and construction of a launched cable-stayed bridge in China

Y. Wang, X. Dai, T. He, J. Dai and J. Zhang

Innovative design of the world's tallest electrical transmission towers

F. Xu, J. Chen, Y. Guo and Y. Ye

Modern timber construction technology and engineering applications in China

Z. Li, R. Zhou, M. He and X. Sun

Design and construction of the new library at China Agricultural University

H. Peng, J. Zhang, Z. Zhou, P. Mendis, F. Han, Z. Li

and D. Zhang

Structural design of irregular curved lattice shells in China

J. Xu, C. Fang, W. Wang and G. Chen

Using building information modelling for a commercial building in Beijing, China

H. Peng, D. Gao, X. Zeng, M. Sofi, Z. Zhou and X. Li

Automatic air-cooling system for early-age crack control in concrete

X. Li, Y. Geng, S. Xue, J. Li, Y. Song and G. Kang



Engineering and Computational Mechanics

The 25th UKACM computational mechanics conference – part 2

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M. O. Ciantia, K. Boschi, T. Shire and S. Emam

Numerical analysis of fluid-rock interactions in hydraulic fracturing

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R. Sauffisseau and A. Ahangar-Asr



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M. Song and J. Jin

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S. N. A. Jeffry, R. Putra Jaya, N. A. Hassan, J. Mirza

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Nanoscale mechanical properties of cement paste reinforced with short carbon nanotubes

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D. Wiggins, K. Mudd and M. Healey

Introduction to 'The Jubilee line: 2. Construction from Baker Street to Bond Street exclusive and from Admiralty Arch to Aldwych' by D. Lazarus

D. Lazarus



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A. Rotimi, A. Bahadori-Jahromi, A. Mylona,

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Impact of repairs on embodied carbon dioxide expenditure for a reinforced-concrete quay

A. Brás and P. Faustino

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A. Loeve

Reconstructing the human contribution: reliably integrating human factors in investigations

S. Dekker

Forensic engineering of water leakages of underground structures

Y. C. Kog

Distress of an industrial building constructed on an expansive soil: a case study from India

T. Ashok Kumar, R. G. Robinson and T. Thyagaraj

Investigation of distress of a reinforced earth wall in Hong Kong

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K. Krabbenhoft

Slurry improvement by vacuum preloading and electro-osmosis

X. Li, R. Zhao, H. Fu, J. Wang, Y. Cai, X. Hu, J. Zhou

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Thermo-hydro-mechanical coupling analysis of a thermal pile

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Comparing the lane-changing behaviour of Iran and the United States
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