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Bridge Engineering

Design and construction of modern integral bridges

171, No. BE3, September 2018, 141–221

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An integral flat arch bridge

R. Strosco, N. Lake, C. Toms and S. Pettifer

Criteria and guidance for the design of integral bridges

M. Al-Ani, A. Murashev, A. Palermo, K. Andisheh, J. Wood, D. Goodall and N. Lloyd

Lateral stress profiles on integral bridge abutments

J. R. Banks and A. G. Bloodworth

Numerical modelling of integral abutment bridges under seasonal thermal cycles

A. Caristo, J. Barnes and S. A. Mitoulis

Farm Road Bridge, UK: a new 'top-down' integral bridge using an existing arch as falsework

A. Mitchell and D. Warrior

Design and construction of Loughor railway viaduct with semi-integral abutments

T. Ashworth and C. Young

Measured temperature and shrinkage effects on a 90 m long integral bridge in South Africa

S. A. Skorpen, E. P. Kearsley and E. J. Kruger

The design of integral bridges with bankseat, half- and full-height abutments on the A14, UK

J. Sandberg, T. Argyle, R. Petty, P. Nowak and B. Patel



Hybrid anode concrete corrosion protection – independent study

W. Dodds, C. Christodoulou and C. Goodier

The bond between glass-fibre-reinforced polymer bars and ultra-high-strength concrete

K. M. A. Hossain, D. Ametrano and M. Lachemi

Energy

Energy, land and water nexus

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Energy, land and water nexus in Sri Lanka's Mahaweli basin

M. R. Chegwin and S. Kumara

Some lessons from Southern Africa about the challenges posed by water nexuses

M. Muller

Nigerian briefi ng: how engineers can help secure a sustainable economy

J. Tomlinson

Review of the sub-Saharan African small hydropower situation

J. Zhang, D. Adu, Y. Fang and T. Yin

Energy, food and water nexus in the European Union: towards a circular economy

C. Brandoni and B. Bošnjaković



Engineering Sustainability

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Critical analysis of construction workforce sustainability in a developed economy – case study in Hong Kong

M. C. P. Sing, V. W. Y. Tam, I. W. H. Fung and H. J. Liu

Feasibility study of bike sharing in Singapore

J. Zhang, P. P. Koh, M. Meng, B. W. Leow and Y. D. Wong

Reviewing air pollution and public health in China

B. Xue, T. Butler, W. Ren, Z. Zhang, Y. Wang and Z. Mu

Towards the development of eco-industrial estates in Bhutan

S. C. Wangdi and M. P. Nepal



Forensic Engineering

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Advancing tunnelling: the Victorian engineering management legacy

V. Edmondson, F. Sherratt, R. Roff and A. Levett

Critical assessment of evidence related to the 1989 Hillsborough Stadium disaster, UK

J. F. Dickie

Aceh and Nias, Indonesia post-tsunami reconstruction by survivor participation

J. D. Meigh, I. M. Minanto and I. A. Rachim

Deterioration of concrete structures along with case studies in India

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Displacement response of an energy pile in saturated clay

D. Wu, H. L. Liu, G. Q. Kong, C. W. W. Ng and X. H. Cheng

Dragload of pile groups in consolidating non-Darcian clays

A. Mishra and N. R. Patra

Assessment method for leaning instability of jacksups during preloading in deep soft clay

E. T. R. Dean

Design safe distance between a buried pipe and a soil slope

H. Zhu, L. Zhang, K. Chan and C. Chen

Railway embankment stabilisation: economical asset management

I. Payne, S. J. Holt and I. W. Griffiths

Behaviour of normally consolidated clay containing isolated solid inclusions

V. Sivakumar, S. Donohue, L. Rødvang, S. Nanda and S. Tripathy

Internal stability assessment of granular soils using the Kezdi and Sherard methods

X. Ni, Y. A. H. Dallo and Y. Wang

Cutter-disc consumption during earth pressure balance tunnelling in mixed strata

K. Elbaz, S. L. Shen, W. C. Cheng and A. Arulrajah



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Cities of the future

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Engineering future liveable, resilient, sustainable cities using foresight

C. D. Rogers

Sustainability cost curves for urban infrastructure planning

D. Hoorweg, M. Hosseini and C. Kennedy

How water challenges can shape tomorrow's cities

N. Dolman and F. Ogunyoye

The hidden role of the subsurface for cities

L. V. D. Tann, N. Metje, H. Admiraal and B. Collins

Delivering urban energy and transport links using offshore structures

G. Jackson

Developing and procuring London's highway infrastructure to enable an electric future

L. Clancy, S. Palmer and J. Blake

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L. Connolly, L. Campion and P. Rudden

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R. Cooke



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A review of Pochhammer–Chree dispersion in the Hopkinson bar

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A. Sharma, J. Yang, M. Parke and F. Tan

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K. Krichko and I. B. Valente



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Thirty-seven-year investigation of quicklime-treated soil produced by deep mixing method
H. Takahashi, Y. Morikawa, N. Fujii and M. Kitazume

Estimating column diameters in jet-grouting processes

T. Kimpritis, J. R. Standing and R. Thurner
Horizontal coefficient of consolidation from inward- and outward-flow tests
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Engineering behaviour of expansive clays blended with cement and GGBS

B. R. Phanikumar and T. V. Nagaraju
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Lessons from transforming a South African special-purpose vehicle into a project implementation agency
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Capturing effects of container location dispersion on quay crane performance

H. Yu, Y. E. Ge, X. Fu, Y. Huang, Y. Zhang and C. Tan

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Coming out and staying in: how sexual orientation and gender identity matters in construction employment
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Comparative study of sustainable drainage systems for refugee camps stormwater management

O. O. Ajibade and K. Tota-Maharaj
Thermal equity, public health and district cooling in hot climate cities
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The case for inclusive area profiling applied in geographic information systems

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J. Bennetts, G. T. Webb, P. J. Vardanega, S. R. Denton and N. Loudon

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A. N. Jones and J. Bridgeman



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