

MONITOR: PROCEEDINGS

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Bridge Engineering

168, No. BE4, December 2015,
273–350

Adelaide's South Road Superway

L. Donnelly and L. Wise

Effective shear width of concrete slab bridges

E. O. L. Lantsoght, A. de Boer, C. van der Veen and J. C. Walraven

Design and construction of a launched steel girder bridge

K. Ahmadi-Kashani

Review of FRP decks: structural and in-service performance

V. Mara and R. Haghani

Using satellites to monitor Severn Bridge structure, UK

G. W. Roberts, C. J. Brown, X. Tang and O. Ogundipe

Steel bridge design and construction: a Southern African experience

M. Dundu



AAR-based decomposition method for lower bound limit analysis

J. J. Muñoz and N. Rabiei

Failure design of high-rise concrete panels under fire loading

J. Bleyer, D. T. Pham and P. de Buhan

Engineering History and Heritage

168, No. EH4, November 2015,
137–188

Turkish D-light: accentuating heritage values with daylight

S. Al-Maiyah and H. Elkadi

Repairs to the Llangollen arm of the Shropshire Union Canal

T. J. Peters and S. F. Brown

Lime mortar and sacrificial protection of heritage stonework

A. J. Klemm and D. E. Wiggins

The Iron Bridge: desk study and engineering assessment

J. Miller



Stability of steel reinforced soil walls after footing failure

R. J. Bathurst, Y. Miyata, Y. Otani, H. Ohta and H. Miyatake

Centrifuge tests of axially loaded piles in consolidating soil

Y. C. Kog

A novel algorithm for slope stability analysis

O. F. Usluogullari

Optimal model for particle size distribution of granular soil

Z. Zhou, P. G. Ranjith and S. Li

Ground response and grout distribution by field soil grouting

M. Chang and R.-C. Huang

Construction Materials

168, No. CM6, December 2015,
251–288

Behaviour of short-fibre-reinforced composite in bending shear

S. K. Ghosh, S. Bhattacharjya and S. Chakraborty

The environmental impacts of fibre-reinforced polymer composites in construction

C. Zhang



Engineering Sustainability

168, No. ES6, December 2015,
229–264

Australian construction response to sustainability 'megaforces'

R. Y. J. Siew

The Integrated Renovation Process: application to family homes

N. Galiotto, P. Heiselberg and M. Knudstrup

Flexural properties of composite gypsum partition panel

K. Aghaee, M. A. Yazdi and J. Yang



Energy

169, No. EN1, February 2016, 1–46

Tidal energy from the Severn estuary, UK

C. Binnie

Commercial photovoltaic system design for Cardiff City Hall

T. K. N. Sweet, K. El Khatib, N. Bristow, B. Drysdale and N. Jenkins

Realising a climate-resilient UK electricity and gas system

A. Metz, G. Darch and M. Workman



Forensic Engineering

168, No. FE4, November 2015,
153–182

Failure case study of reinforced concrete foundations of wind turbine towers

X. Zhou, H. Kong and J. S. Dow

Failure of holding down bolt assembly

Y. C. Kog

Assessment of the degree of heating of lightweight concrete

T. Donchev, N. Petkune, H. Kew and M. L. Ibsen



Engineering and Computational Mechanics

Direct methods: part two

168, No. EM4, December 2015,
131–185

An upper bound limit analysis formulation for thin plates

A. Makrodimitropoulos

Optimal material layout – applied on reinforced concrete slabs

N. Dollerup, M. S. Jepsen and L. Damkilde

Modelling rotational failure in confined geometries using DLO

C. C. Smith and M. Gilbert



Geotechnical Engineering

169, No. GE1, February 2016,
1–94

Resistivity of Irish glacial deposits

S. O'Connor, P. O'Connor and M. Long

Comparative research on lower bound depth of collapse loess

X. Wu, H. Chu and L. Wang



Ground Improvement

169, No. GI1, February 2016,
1–78

Field load tests on plastic tube cast-in-place concrete piles

C.-G. Qi, Y.-H. Chen and M. Iskander

Arresting settlement of clay using low-pressure grouting

S.-H. Chew and S. K. Bharati

Numerical analysis of submerged flows for jet grouting

G. Modoni, L. Wanik, G. Giovinco, J. Bzówka and A. Leopardi

Optimising deep mixed soil zones in land reclamation projects

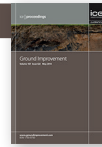
S. L. Bryson, H. El Naggar and A. J. Valsangkar

Low-temperature calcite precipitation in sand using CIPS

A. Palmén, G. Price, M. Axelsson and S. Larsson

A study of soil-nailed wall behaviour at limit states

M. Hajjalilue-Bonab and S. K. Razavi



Management, Procurement and Law

International perspectives in construction contracts

168, No. MP6, December 2015,
249–301

A contract manager abroad: cultural awareness in Asia

E. Webb

Construction disputes under UAE law: some initial considerations

G. Blanke and S. Kotb

The concept of partnering in public-private partnership projects in the United Arab Emirates

M. Khalifa, P. Farrell and H. Emam

BIM and construction contracts – CPC 2013's approach

D.-J. Gibbs, S. Emmitt, W. Lord and K. Ruikar

The use and abuse of programmes in construction contracts

A. Kidd, S. Appelbe and A. Morgan



MONITOR: PROCEEDINGS

Maritime Engineering

168, No. MA4, December 2015, 155–193

Sustainable maintenance and repair of RC coastal structures

E. Bastidas-Arteaga and F. Schoefs

Long-term loss of beach material from the Eastern English Channel

I. Thomas

Experimental study on behaviour of piles in berthing structure

P. Premalatha, K. Muthukumaran and P. Jayabalan



Municipal Engineer

Planning policy and urban regeneration

168, No. ME4, December 2015, 207–271

Regenerative ideas for urban roads in South Africa

F. A. Emuze and D. K. Das

Resident satisfaction for sustainable urban regeneration

Y. Afacan

Public accountability in planning for new housing areas

V. Kang and W. K. Korthals Altes

Planning for sustainable inner city regeneration in China

L. Zhu and Y. Huang

Greater Jakarta, the world's second largest conurbation – part 1

J. S. Younger, D. E. Parry, H. A. Lubis, A. McLernon, D. J. Wignall, D. Hasan and G. G. Benton

Greater Jakarta, the world's second largest conurbation – part 2

J. S. Younger, D. E. Parry, H. A. Lubis, A. McLernon, D. J. Wignall, D. Hasan and G. G. Benton



Structures and Buildings

168, No. SB12, December 2015, 889–957

Intelligent active control of a benchmark cable-stayed bridge

M. He, R. Hu, J. Wang, L. Chen and C. Chen

Restrained shrinkage cracking of amorphous metallic fibre-reinforced concrete

K.-K. Choi, G. T. Truong and S.-J. Choi

Structural assessment of a masonry vault in Portugal

P. Lança, P. B. Lourenço and B. Ghiassi

Energy absorption of steel hollow tubes under bending

S. Maduliat, T. D. Ngo and P. Tran

Free vibration of curved thin-walled rectangular beams

L. Zhang, Z. Zhu, G. Shen and G. Cao



Transport

169, No. TR1, February 2016, 1–62

Measuring track vertical stiffness through dynamic monitoring

M. J. Cano, P. M. Fernández and R. I. Franco

A novel CPS-based vehicle safety state evaluation scheme

H. Zhao, D. Sun, M. Zhao, S. Cheng and W. Liu

An index for sight-hidden dips assessment

C. de Santos-Berbel and M. Castro



Estimated passenger car equivalent using backward wave speed

S. Li and K. Wang

Application of noise abatement procedures at regional airports

C. Lantieri, L. Mantecchini and V. Vignali

Iterative update of route choice proportions in OD estimation

M. Yousefikia, A. R. Mamdoohi and M. Noruzoliaee

Urban Design and Planning

The art of urban design: part two

168, No. DP6, December 2015, 267–320

Exploring the art of urban design as a sensorial experience

S. Smith

Encounters of discrete urban practices

D. N. Baroud

Urban activation in a post-crisis Euro-Mediterranean scenario

F. Wulff Barreiro and M. Guirnaldo Diaz

Urbane infrastructures: how installations make a city in Barcelona

M. Munar Bauzá and A. González Raventos

The art of knowledge exchange in urban design

P. Aelbrecht and Q. Stevens

Art and urban design

A. Madanipour



Waste and Resource Management

169, No. WR1, February 2015, 1–53

Improving the management of construction waste in Qatar

J. M. Reid, K. El-Gamil Hassan, M. b. S. Al-Kuwari

Waste-derived activated carbons for control of nitrogen oxides

A. S. S. Al-Rahbi, M. A. Nahil, C. Wu and P. T. Williams

Environmental quality of hardened wood fly ash-cement mixtures

M. Berra, T. Mangialardi and A. E. Paolini

Innovations in Saint Petersburg's 12 km siphon sewer, Russia

V. Vasilyev and F. Vasilyev

Influence of weld slag aggregate in high-performance concrete

A. Ananthi and K. Karthikeyan



Water Management

168, No. WM6, December 2015, 243–296

Non-iterative design method for flexible channels with bends

S. M. Easa, G. Wu, A. E. H. O. Abd El Halim and M. Yu

Modelling the dynamic processes of channel migration

J. Sun, B. Lin and H. Kuang

Effect of floated sludge recycling on phosphorus removal in dissolved air flotation

D.-H. Kwak and K.-C. Lee

Effective parameters for calculating discharge of radial gates

H. K. Shayan, J. Farhoudi and R. Roshan



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