

MONITOR:ICE PROCEEDINGS

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Bridge Engineering

164, No. BE4, December 2011, 183–227

Steel–concrete composite bridge design charts for Eurocodes
R. Mitchell, D. A. Smith and C. Dolling

Shear assessment of prestressed concrete bridges
P. Valerio, T. J. Ibell and A. P. Darby

Seismic response of continuous bridge with isolation bearings
G. Ghosh, Y. Singh and S. K. Thakkar



Construction Materials

CIB conference – focus on durability
164, No. CM6, December 2011, 271–340

Durability design of reinforced concrete structures
L. Bertolini, F. Lollini and E. Redaelli

Pozzolanic additions for durability of concrete structures
L. Bertolini, M. Carsana, M. Frassoni and M. Gelli

Numerical prediction for corrosion-induced concrete crack width
S. Yang and C.-Q. Li

Predicting the service life of buildings and components
I. Cole and P. Corrigan

Utilisation of waste material in geopolymeric concrete
M. F. Nuruddin, S. A. Qazi, A. Kusbianoro and N. Shafiq

Studies of wooden cladding materials degradation by spectroscopy
B. S. Gupta, B. P. Jelle, P. J. Hovde and P. R  ther



Energy

Embodied carbon
165, No. EN1, February 2012, 1–46

Laterally loaded monopole design for offshore wind farms
P. Doherty and K. Gavin

Development of deep geothermal energy resources in the UK
P. L. Younger, J. G. Gluyas and W. E. Stephens

Community-level renewable energy planning in environmentally sensitive areas
A. J. Clark and D. J. Roddy



Engineering and Computational Mechanics

164, No. EM4, December 2011, 185–246

Foreword: Dr Robert Hooke and the origins of engineering science
A. G. L. Borthwick

Dr Robert Hooke and the origins of engineering science
A. Chapman

Hydraulic modelling of stratified bi-directional flow in a river mouth
J. Laaneer, A. Vassiljev and P. A. Davies

A comparison of 2D and 3D simulations of the River Blackwater
L. Barrett, N. G. Wright and M. Sterling

Vortex excitation of steel chimneys with corrosion
T. Lipceki and A. Flaga



Engineering History and Heritage

165, No. EH1, February 2012, 1–62

The art of John Martin's London sewerage system
M. Gaterell

The construction of the Kiev Suspension Bridge 1846–1853
J. Vignoles

Scamilli impares
J. Heyman

First continental underground electric railway, Budapest 1896
M. Porrino

Menai Suspension Bridge: a history of maintenance and repair
W. T. Day



Engineering Sustainability

164, No. ES4, December 2011, 227–287

Barriers to addressing sustainable construction in public procurement strategies
A. Sourani and M. Sohail

Engineers and planners: sustainable water management alliances
K. Potter, S. Ward, D. Shaw, N. Macdonald, I. White, T. Fischer, D. Butler and R. Kellagher

Influence of affluence on sustainable housing in Mysore, India
B. K. Satish, J. Brennan and R. Pedreschi

Earthbag housing: structural behaviour and applicability in Sri Lanka
B. Daigle, K. Hall and C. MacDougall

Cost recovery in waterborne sanitation: cases in Botswana
B. Bolaane and H. Ikgopoleng



Forensic Engineering

165, No. FE1, February 2012, 1–54

Seven rules for success as an expert
R. Choat

Building facade failures
K. J. Beasley

Large panel system dwelling blocks – updating structural assessment guidance
S. Matthews and B. Reeves

Scour failure of bridges
B. Maddison



Geotechnical Engineering

164, No. GE6, December 2012, 351–404

Physical modelling analysis of the New Orleans levee breaches
R. S. Steedman and M. K. Sharp

Chalk fill platform for house construction: a case study
K. C. Law

Optimum geometrical properties of active isolation
M. Jesmani, A. Hamissi, M. Kamalzare and R. S. Vileh



Ground Improvement

165, No. GI1, February 2012, 1–62

Experiences of dry soil mixing in highly organic conditions
M. J. Timoney, B. A. McCabe and A. L. Bell

Strength variability in lime-cement columns based on cone penetration test data
M. S. Al-Naqshabandi, N. Bergman and S. Larsson

Novel tool for optimised design of reinforced soils by columns
M. Bouassida and L. Hazzar

Strength and stiffness of a cement-stabilised lateritic soil with granulated rubber addition
C.-M. Chan

Model studies on woven coir geotextile-reinforced sand bed
P. Vinod and A. B. Bhaskar



Management, Procurement and Law

Construction and development in South Africa
165, No. MPL1, February 2012, 1–78

Localised solutions developed to suit South African challenges
R. Ronny and J. S. Ptak

Benefits of freeway investment through innovative procurement
N. Alli, S. Wilson and A. van Niekerk

Understanding construction project failure in Southern Africa
W. S. Valentin and F. S. Vorster

Perspectives on health and safety in construction and design
F. Emuze and J. Smallwood

Can construction arbitration learn from adjudication?
P. M. M. Lane

Design and construction of the Gautrain Rapid Rail Link
C. Andrew and I. M. Thoms

Funding model for bulk raw water infrastructure in South Africa
A. Keyser

Moses Mabhid Stadium, Durban's icon of pride
T. ter Haar

Aesthetic design considerations for bridges and road structures
E. Kruger and N. Alli



Maritime Engineering

Scour in the marine environment
164, No. MA4, December 2011, 139–193

Evaluating scour at marine gravity foundations
R. J. S. Whitehouse, J. Sutherland and J. M. Harris

Sinking of armour layer around a cylinder exposed to a current
A. W. Nielsen, B. M. Sumer, J. Freds   and E. D. Christensen

Long- and short-crested random wave-induced scour below pipelines
D. Myrhaug and M. C. Ong

Jet scour
G. Hoffmans and H. Verheij



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Municipal Engineer

Future skill needs in municipal engineering
164, No. ME4, December 2011, 207–278

Students' views on their education and the future
M. Bather

Civil engineering degrees: fit for the future?
P. J. Mills

Effective communication in contaminated risk management
M. Cross

Future skill sets for the municipal engineer
M. W. Cooper and J. Ashurst

Criticality of intelligent clients in the infrastructure sector
F. Emuze and J. Smallwood

Developing competences for water utility change programmes
K. R. Sansom and S. Coates

Training for real: matching employer needs to training supply
B. Reed, S. Coates, F. Odhiambo and S. Kayaga

Structures and Buildings

165, No. SB1, January 2012, 1–54

Enhancing ductility of non-seismically designed RC wall-frame buildings
J. S. Kuang and A. I. Atanda

A new infilled steel frame with engineering properties
M. Mohammadi and R. Mohammadi Ghazi Mahalleh

A generic unified reinforced concrete model
D. J. Oehlers, M. S. Mohamed Ali, M. C. Griffith, M. Haskett and W. Lucas

Transport

165, No. TR1, February 2012, 1–78

Modelling of differential shrinkage of pavement slabs
J.-H. Jeong, J.-S. Lim, R.-J. Sun and D. G. Zollinger

Prediction of hot mix asphalt dynamic modulus using dimensional analysis
A. Abu Abdo and B. Muhunthan

Design of embankment–structure transitions for railway infrastructure
I. Gallego Giner, A. López Pita, E. W. Vieira Chaves and A. M. Rivas Álvarez

Flexible model structure for discrete-choice models
R. Ishaq, S. Bekhor and Y. Shiftan

Modelling the mode choice behaviour of visitors to Expo 2010
Y. Du, S. Jiang, L. Sun and S.-C. Wong

Increasing the number of bicycle commuters
I. Lee, H. Park and K. Sohn

Urban Design and Planning

164, No. DP4, December 2011, 195–248

Appraisal of public spending in the development process
T. A. Jackson

Emergency evacuation model: accessibility as a starting point
N. I. Mohareb

A review of road structure data in six European countries
A. Žnidarič, V. Pakrashi, E. O'Brien and A. O'Connor

The internet: a potential factor in socio-spatial disintegration of Riga?
K. Nawrotek

Urbanwords
R. Cowan

Waste and Resource Management

Waste electrical and electronic equipment
165, No. WR1, February 2012, 1–54

Chances and risks of using rare earth metals
V. Zepf and A. Reller

A critical review of the UK household WEEE collection network
F. O. Ongondo and I. D. Williams

Takeback systems for mobile phones: review and recommendations
P. Beigl, F. Schneider and S. Salhofer

Recycling of flat screens as a new challenge
S. Salhofer, M. Spitzbart and K. Maurer

E-waste recycling environmental contamination: Mandoli, India
E. Gidarakas, S. Basu, K. V. Rajeshwari, E. Dimitrakakis and C. R. Johri

Water Management

Developments in operational flood forecasting in the UK
165, No. WM1, January 2012, 1–54

Optimising round-edged entrance of 55° river water intake
A. Keshavarzi, M. Karami Moghadam and J. E. Ball

Local scour due to sediment-carrying free-overfall water jet
M. Ghodssian, B. Melville and S. Coleman

Determination of drain pipe diameter using spatially varied flow theorem
A. R. Vatankhah

The enhancement of geomorphologic measurement using GIS
G. S. Lee, K. H. Lee and S. J. Lee

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Géotechnique	12	560	630	680
Géotechnique Letters	4	Free	N/A	N/A
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