

Papers Published in Volume 18

Number 1

- 1 Editorial
- 3 Analysis of steel fibre pull-out from a cement matrix using video photography
A. POMPO, P. R. STUPAK, L. NICOLAIS & B. MARCHESE (Italy)
- 9 Mechanical behaviour of cementitious matrix composites
A. G. MAGALHÃES, A. T. MARQUES, F. M. F. OLIVEIRA (Portugal),
P. SOUKATCHOFF (France) & P. T. DE CASTRO (Portugal)
- 23 Water environment and nanostructural network in a reactive powder concrete
A. FEYLESSOUFI, F. VILLIÉRAS, L. J. MICHOT, P. DE DONATO, J. M. CASES &
P. RICHARD (France)
- 31 Effect of microsilica and acrylic polymer treatment on the ageing of GRC
P. J. M. BARTOS & W. ZHU (UK)
- 41 Roller compacted sheets of polymer modified mortar
B. P. HUGHES & B. LUBIS (UK)
- 47 Deterioration of concrete due to reinforcement steel corrosion
J. G. CABRERA (UK)
- 61 Effect of autoclaving on cement composites containing polypropylene, glass and carbon fibres
M. KAKEMI (Japan) & D. J. HANNANT (UK)
- 67 Interfacial interactions in lightweight aggregate concretes and their influence on the concrete strength
R. WASSERMAN & A. BENTUR (Israel)
- 77 Book review
- 79 News: conferences and symposia

Number 2

- 83 Editorial
- 85 Mechanical properties of polypropylene fiber reinforced concrete and the effects of pozzolanic materials
A. M. ALHOZAIMY (Saudi Arabia), P. SOROUSHIAN (USA) & F. MIRZA (Saudi Arabia)

- 93 Factors affecting cathodic disbondment of epoxy coatings for steel reinforcing bars
J. S. MCHATTIE, I. L. PEREZ & J. A. KEHR (USA)
- 105 Fly ash as fine aggregate in polyester based polymer concrete
K. T. VARUGHESE & B. K. CHATURVEDI (India)
- 109 Compaction properties of roller compacted concrete
K. KOKUBU (Japan), J. G. CABRERA (UK) & A. UENO (Japan)
- 119 Ultrasonic evaluation of cement adhesion in wall tiles
K. S. TAN, K. C. CHAN, B. S. WONG & L. W. GUAN (Singapore)
- 125 Model for predicting the fracture process zone and *R*-curve for high strength FRC
A.-B. EISSA (Qatar) & G. BATSON (USA)
- 135 The use of rubber tire particles in concrete to replace mineral aggregates
H. A. TOUTANJI (Puerto Rico)
- 141 Stress analysis of a fracture test specimen for cementitious materials
B. B. SABIR & M. ASILI (UK)
- 153 News: conferences and symposia

Number 3

Special Issue

DELAYED ETTRINGITE FORMATION

- 157 Guest Editorial
- 161 An experimental clarification of the association of delayed ettringite formation with
alkali–aggregate reaction
A. SHAYAN & I. IVANUSEC (Australia)
- 171 The effect of cement composition and fineness on expansion associated with delayed ettringite
formation
S. KELHAM (UK)
- 181 On the delayed expansion of heat cured Portland cement pastes and concretes
I. ODLER & YAOXIN CHEN (Germany)
- 187 The role of sulfate mineralogy and cure temperature in delayed ettringite formation
F. P. GLASSER (UK)
- 195 Initial hydration reactions and mechanisms of delayed ettringite formation in Portland cements
H.-J. KUZEL (Germany)
- 205 Delayed ettringite formation—Processes and problems
S. DIAMOND (USA)
- 217 News: conferences and symposia

Number 4

Special Issue

TOUGHNESS OF FRC COMPOSITES

- 221 Guest Editorial
- 223 Toughening in cement based composites. Part I: Cement, mortar, and concrete
V. C. LI & M. MAALEJ (USA)
- 239 Toughening in cement based composites. Part II: Fiber reinforced cementitious composites
V. C. LI & M. MAALEJ (USA)
- 251 Fracture toughness of micro-fiber reinforced cement composites
N. BANTHIA & J. SHENG (Canada)
- 271 Optimization of the material structure and composition of cement based composites
A. M. BRANDT & M. MARKS (Poland)
- 281 Toughness measurement—the need to think again
B. BARR (UK), R. GETTU (Spain), S. K. A. AL-ORAIMI & L. S. BRYARS (UK)
- 299 News: conferences and symposia

Number 5

- 303 Editorial
- 305 Application of FRC in construction of the underground railway track
A. M. BRANDT, M. A. GLINICKI & J. POTRZEBOWSKI (Poland)
- 313 The effect of processing on the bond and interfaces in steel fiber reinforced cement composites
S. IGARASHI (Japan), A. BENTUR (Israel) & S. MINDESS (Canada)
- 323 Interaction between concrete cladding panels and fixings under blast loading
Y. G. PAN & A. J. WATSON (UK)
- 333 Strength development and drying shrinkage of high-strength concretes
M. N. HAQUE (Australia)
- 343 Physicochemical studies on single and combined effects of latex and superplasticiser on portland cement mortar
I. RAY, A. P. GUPTA & M. BISWAS (India)
- 357 Ultrasonic pulse velocity test of concrete properties as specified in various standards
K. KOMLOŠ (Slovak Republic), S. POPOVICS (USA), T. NÜRNBERGEROVÁ, B. BABÁL (Slovak Republic) & J. S. POPOVICS (USA)
- 365 News: conferences and symposia

Number 6

- 369 Editorial
- 371 A preliminary investigation of strength development in Jamaican red mud composites
J. N. GORDON, W. R. PINNOCK & M. M. MOORE (Jamaica)
- 381 Prediction of stresses in concrete pavements subjected to non-linear gradients
A. R. MOHAMED & W. HANSEN (USA)
- 389 Effect of fiber modulus of elasticity on the long term properties of micro-fiber reinforced cementitious composites
A. KATZ (Israel)
- 401 The effect of sulfate ion diffusion on the structure of cement stone
P. GOSPODINOV, R. KAZANDJIEV & M. MIRONOVA (Bulgaria)
- 409 Air entrainment in fresh concrete with PFA
D. S. ZHANG (UK)
- 417 The statistical evaluation of epoxy concrete heterogeneity
L. CZARNECKI, P. ŁUKOWSKI & R. NEJMAN (Poland)
- 429 Steel strip reinforced high-density wood shaving–cement board ribbed roof panel
G. XIONG (China)
- 437 Development of polymer concrete with polybutadiene matrix
O. FIGOVSKY, D. BEILIN, N. BLANK (Israel), J. POTAPOV & V. CHERNYSHEV (Russia)
- 445 Influence of interface modification and phase separation on damping properties of epoxy concrete
S. LI, J. HU, F. SONG & X. WANG (China)
- 455 News: conferences and symposia
- 457 PatentsALERT
- 465 Index
- 467 Contents of Volume 18