

# SUBJECT INDEX TO VOLUME 3

### **Additives**

Zeolite-based additives for high alumina cement products (Fu Y, Ding J, Beaudoin JJ), 1996;3:37–42

#### Aging

Mechanisms and processes leading to changes in time in the properties of CFRC (Katz A, Bentur A), 1996;3:1–13

### **Beam**

Observation of the fracture path development in mortar beam specimens (Davies J), 1996;3:31–36

### Bending

Mechanisms and processes leading to changes in time in the properties of CFRC (Katz A, Bentur A), 1996;3:1–13

Observation of the fracture path development in mortar beam specimens (Davies J), 1996;3:31–36

#### **BET** method

Deterioration of the nitrogen BET surface area of dried cement paste with storage time (Rarick RL, Thomas JJ, Christensen BJ), 1996;3:72–75

Effect of carbonation on the nitrogen BET surface area of hardened portland cement paste (Thomas JJ, Hsieh J, Jennings HM), 1996;3:76–80

# Brittleness number

Design of concrete mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1996;3:124–132

### Calciochondrodite

<sup>29</sup>Si and <sup>17</sup>O NMR investigation of the structure of some crystalline calcium silicate hydrates (Cong X, Kirkpatrick RI), 1996;3:133–143

# Calcium silicate hydrate

<sup>29</sup>Si and <sup>17</sup>O NMR investigation of the structure of some crystalline calcium silicate hydrates (Cong X, Kirkpatrick R)), 1996;3:133–143

<sup>29</sup>Si MAS NMR study of the structure of calcium silicate hydrate (Cong X, Kirkpatrick RJ), 1996;3:144–156

### Carbonation

Effect of carbonation on the nitrogen BET surface area of hardened portland cement paste (Thomas JJ, Hsieh J, Jennings HM), 1996;3:76–80

### Carbon fiber reinforced cement

Mechanisms and processes leading to changes in time in the properties of CFRC (Katz A, Bentur A), 1996;3:1–13

# Cement based matrices

Behavior of cement based matrices reinforced by randomly dispersed microfibers (Lange DA, Ouyang C, Shah SP), 1996;3:20–30

# Cement paste

Deterioration of the nitrogen BET surface area of dried cement paste with storage time (Rarick RL, Thomas JJ, Christensen BJ), 1996;3:72–75

Effect of carbonation on the nitrogen BET surface area of hardened portland cement paste (Thomas JJ, Hsieh J, Jennings HM), 1996;3:76–80

Mechanical properties of cement pastes and mortars at early ages (Boumiz A, Vernet C, Cohen Tenoudji F), 1996; 3:94–106

Observations of microcracking in cement paste upon drying and rewetting by environmental scanning electron microscopy (Kjellsen KO, Jennings HM), 1996;3:14–19

### Characteristic length

Design of concrete mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1996;3:124–132

### Composite materials

Behavior of cement based matrices reinforced by randomly dispersed microfibers (Lange DA, Ouyang C, Shah SP), 1996;3:20–30

Mechanisms and processes leading to changes in time in the properties of CFRC (Katz A, Bentur A), 1996;3:1–13

# Compressional waves

Mechanical properties of cement pastes and mortars at early ages (Boumiz A, Vernet C, Cohen Tenoudji F), 1996; 3:94–106

# Compressive strength

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

Zeolite-based additives for high alumina cement products (Fu Y, Ding J, Beaudoin JJ), 1996;3:37–42

### Concrete

Design of concrete mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1996;3:124–132

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

Testing of concrete under closed-loop control (Gettu R, Mobasher B, Carmona S, Jansen DC), 1996;3:54–71

### Confocal microscopy

Behavior of cement based matrices reinforced by randomly dispersed microfibers (Lange DA, Ouyang C, Shah SP), 1996;3:20–30

# Control systems

Testing of concrete under closed-loop control (Gettu R, Mobasher B, Carmona S, Jansen DC), 1996;3:54–71

# Cracking characteristics

Observation of the fracture path development in mortar beam specimens (Davies J), 1996;3:31–36

Observations of microcracking in cement paste upon drying and rewetting by environmental scanning electron microscopy (Kjellsen KO, Jennings HM), 1996;3:14–19

# Curing temperature

Zeolite-based additives for high alumina cement products (Fu Y, Ding J, Beaudoin JJ), 1996;3:37–42

### Cylinder strength

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

# Drying

Observations of microcracking in cement paste upon drying and rewetting by environmental scanning electron microscopy (Kjellsen KO, Jennings HM), 1996;3:14–19

### Elastic moduli

Mechanical properties of cement pastes and mortars at early ages (Boumiz A, Vernet C, Cohen Tenoudji F), 1996; 3:94–106

### Electron microscopy

Observations of microcracking in cement paste upon drying and rewetting by environmental scanning electron microscopy (Kjellsen KO, Jennings HM), 1996;3:14–19

### **Failure**

Testing of concrete under closed-loop control (Gettu R, Mobasher B, Carmona S, Jansen DC), 1996;3:54–71

# Fiber bending breakage

Mechanisms and processes leading to changes in time in the properties of CFRC (Katz A, Bentur A), 1996;3:1–13

# Fiber mixing breakage

Mechanisms and processes leading to changes in time in the properties of CFRC (Katz A, Bentur A), 1996;3:1–13

### **Fibers**

Behavior of cement based matrices reinforced by randomly dispersed microfibers (Lange DA, Ouyang C, Shah SP), 1996;3:20–30

Mechanisms and processes leading to changes in time in the properties of CFRC (Katz A, Bentur A), 1996;3:1–13

# Fracture mechanics

Design of concrete mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1996;3:124–132

### Fracture path

Observation of the fracture path development in mortar beam specimens (Davies J), 1996;3:31–36

### Geothermal cement

Sodium metasilicate-modified lightweight high alumina cements for use as geothermal well-cementing materials (Sugama T, Carciello N), 1996;3:45–53

### High alumina cement

Sodium metasilicate-modified lightweight high alumina cements for use as geothermal well-cementing materials (Sugama T, Carciello N), 1996;3:45–53

Zeolite-based additives for high alumina cement products (Fu Y, Ding J, Beaudoin JJ), 1996;3:37–42

### High performance concrete

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

### Hillebrandite

<sup>29</sup>Si and <sup>17</sup>O NMR investigation of the structure of some crystalline calcium silicate hydrates (Cong X, Kirkpatrick RJ), 1996;3:133–143

### Hydration

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

# Hydration, cement

The evolution of the microstructure in styrene acrylate polymer-modified cement pastes at the early stage of cement hydration (Su Z, Sujata K, Bijen MJM, Jennings HM, Fraaij ALA), 1996;3:87–93

Mechanical properties of cement pastes and mortars at early ages (Boumiz A, Vernet C, Cohen Tenoudji F), 1996; 3:94–106

# Internal relative humidity

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

#### **Tennite**

<sup>29</sup>Si and <sup>17</sup>O NMR investigation of the structure of some crystalline calcium silicate hydrates (Cong X, Kirkpatrick RI), 1996;3:133–143

<sup>29</sup>Si MAS NMR study of the structure of calcium silicate hydrate (Cong X, Kirkpatrick RJ), 1996;3:144–156

# Lightweight slurry

Sodium metasilicate-modified lightweight high alumina cements for use as geothermal well-cementing materials (Sugama T, Carciello N), 1996;3:45–53

### Microcracking

Observations of microcracking in cement paste upon drying and rewetting by environmental scanning electron microscopy (Kjellsen KO, Jennings HM), 1996;3:14–19

#### Micromechanics

Design of concrete mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1996;3:124–132

# Microsphere

Sodium metasilicate-modified lightweight high alumina cements for use as geothermal well-cementing materials (Sugama T, Carciello N), 1996;3:45–53

### Microstructure

Design of concrete mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1996;3:124–132

The evolution of the microstructure in styrene acrylate polymer-modified cement pastes at the early stage of cement hydration (Su Z, Sujata K, Bijen MJM, Jennings HM, Fraaij ALA), 1996;3:87–93

### Mortar

Mechanical properties of cement pastes and mortars at early ages (Boumiz A, Vernet C, Cohen Tenoudji F), 1996; 3:94–106

Observation of the fracture path development in mortar beam specimens (Davies J), 1996;3:31–36

# Nuclear magnetic resonance spectroscopy

<sup>29</sup>Si and <sup>17</sup>O NMR investigation of the structure of some crystalline calcium silicate hydrates (Cong X, Kirkpatrick RJ), 1996;3:133–143

<sup>29</sup>Si MAS NMR study of the structure of calcium silicate hydrate (Cong X, Kirkpatrick RJ), 1996;3:144–156

# Polymer dispersion

The evolution of the microstructure in styrene acrylate polymer-modified cement pastes at the early stage of cement hydration (Su Z, Sujata K, Bijen MJM, Jennings HM, Fraaij ALA), 1996;3:87–93

# Portland cement

Deterioration of the nitrogen BET surface area of dried cement paste with storage time (Rarick RL, Thomas JJ, Christensen BJ), 1996;3:72–75

Effect of carbonation on the nitrogen BET surface area of hardened portland cement paste (Thomas JJ, Hsieh J, Jennings HM), 1996;3:76–80

The evolution of the microstructure in styrene acrylate polymer-modified cement pastes at the early stage of cement hydration (Su Z, Sujata K, Bijen MJM, Jennings HM, Fraaij ALA), 1996;3:87–93

### Reinforcement

Behavior of cement based matrices reinforced by randomly dispersed microfibers (Lange DA, Ouyang C, Shah SP), 1996;3:20–30

Mechanisms and processes leading to changes in time in the properties of CFRC (Katz A, Bentur A), 1996;3:1–13

### Rewetting

Observations of microcracking in cement paste upon drying and rewetting by environmental scanning electron microscopy (Kjellsen KO, Jennings HM), 1996;3:14–19

# Self-desiccation

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

Observations of microcracking in cement paste upon drying and rewetting by environmental scanning electron microscopy (Kjellsen KO, Jennings HM), 1996;3:14–19

#### Servocontrol

Testing of concrete under closed-loop control (Gettu R, Mobasher B, Carmona S, Jansen DC), 1996;3:54–71

### Setting time

Mechanical properties of cement pastes and mortars at early ages (Boumiz A, Vernet C, Cohen Tenoudji F), 1996; 3:94–106

### Shear waves

Mechanical properties of cement pastes and mortars at early ages (Boumiz A, Vernet C, Cohen Tenoudji F), 1996; 3:94–106

### Silica fume

Behavior of cement based matrices reinforced by randomly dispersed microfibers (Lange DA, Ouyang C, Shah SP), 1996;3:20–30

### Sodium metasilicate

Sodium metasilicate-modified lightweight high alumina cements for use as geothermal well-cementing materials (Sugama T, Carciello N), 1996;3:45–53

### Strain softening

Testing of concrete under closed-loop control (Gettu R, Mobasher B, Carmona S, Jansen DC), 1996;3:54–71

### Strength

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

# Surface area

Deterioration of the nitrogen BET surface area of dried cement paste with storage time (Rarick RL, Thomas JJ, Christensen BJ), 1996;3:72–75

Effect of carbonation on the nitrogen BET surface area of hardened portland cement paste (Thomas JJ, Hsieh J, Jennings HM), 1996;3:76–80

# Technology transfer

On the interest of research in building materials (Capmas A), 1996;3:157–158

Questions to Arnon Bentur, Head, National Building Research Institute, Technion, Israel Institute of Technology, Haifa (Skalny JP), 1996;3:81–85

# Tensile strength

Hydration and strength of high performance concrete (Persson B), 1996;3:107–123

# **Testing**

Testing of concrete under closed-loop control (Gettu R, Mobasher B, Carmona S, Jansen DC), 1996;3:54–71

### **Tobermorite**

<sup>29</sup>Si and <sup>17</sup>O NMR investigation of the structure of some crystalline calcium silicate hydrates (Cong X, Kirkpatrick RJ), 1996;3:133–143

<sup>29</sup>Si MAS NMR study of the structure of calcium silicate hydrate (Cong X, Kirkpatrick RJ), 1996;3:144–156

#### Ultrasonics

Mechanical properties of cement pastes and mortars at early ages (Boumiz A, Vernet C, Cohen Tenoudji F), 1996; 3:94–106

#### Xonotlite

<sup>29</sup>Si and <sup>17</sup>O NMR investigation of the structure of some crystalline calcium silicate hydrates (Cong X, Kirkpatrick R]), 1996;3:133–143

### X-ray diffraction

<sup>29</sup>Ši MAS NMR study of the structure of calcium silicate hydrate (Cong X, Kirkpatrick RJ), 1996;3:144–156

# Zeolite

Zeolite-based additives for high alumina cement products (Fu Y, Ding J, Beaudoin JJ), 1996;3:37–42