

## SUBJECT INDEX TO VOLUME 7

### Aggregate

Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41–48

### <sup>27</sup>Al magic-angle spinning NMR

Quantitative aspects of <sup>27</sup>Al MAS NMR of calcium aluminoferrites (Skibsted J, Jakobsen HJ, Hall C), 1997;7:57–59

### Alite

Oilwell cement clinkers: X-ray microanalysis and phase composition (Hall C, Scrivener KL), 1997;7:28–38

### Alkali-aggregate reaction

Microstructural studies of alkali-silica reaction in fly ash concrete immersed in alkaline solutions (Bleszynski RF, Thomas MDA), 1997;7:66–78

### Alkali-silica reaction

Colloid electrochemistry of saturated cement paste and some properties of cement based materials (Chatterji S), 1997;7:102–108

Microstructural studies of alkali-silica reaction in fly ash concrete immersed in alkaline solutions (Bleszynski RF, Thomas MDA), 1997;7:66–78

### Autoclaving

Autoclaved cement-quartz pastes with metakaolin additions (Klimesch DS, Ray A), 1997;7:109–118

### Belite

Oilwell cement clinkers: X-ray microanalysis and phase composition (Hall C, Scrivener KL), 1997;7:28–38

### Bond

Effects of woven fabric geometry on the bonding performance of cementitious composites: Mechanical performance (Peled A, Bentur A, Yankelevsky D), 1997;7:20–27

### Bond strength

Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41–48

### Brittle matrix composites

Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123–132

### Calcination

Development of highly reactive metakaolin from paper sludge (Pera J, Amrouz A), 1997;7:49–56

### Calcium aluminoferrites

Quantitative aspects of <sup>27</sup>Al MAS NMR of calcium aluminoferrites (Skibsted J, Jakobsen HJ, Hall C), 1997;7:57–59

### Cement

Determination of the neutron scattering contrast of hydrated Portland cement paste using H<sub>2</sub>O/D<sub>2</sub>O exchange (Thomas JJ, Jennings HM, Allen AJ), 1997;7:119–122

Effects of woven fabric geometry on the bonding performance of cementitious composites: Mechanical performance (Peled A, Bentur A, Yankelevsky D), 1997;7:20–27

Oilwell cement clinkers: X-ray microanalysis and phase composition (Hall C, Scrivener KL), 1997;7:28–38

### Cement paste

Colloid electrochemistry of saturated cement paste and some properties of cement based materials (Chatterji S), 1997;7:102–108

Electrically induced microstructural changes in Portland cement pastes (Sohn D, Mason TO), 1997;7:81–88

Influence of microstructure on the tritiated water diffusivity of mortars (Delagrave A, Marchand J, Pigeon M), 1997;7:60–65

### Cement-quartz pastes

Autoclaved cement-quartz pastes with metakaolin additions (Klimesch DS, Ray A), 1997;7:109–118

### Characteristic length

Design of fiber-reinforced DSP mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1997;7:89–101

### Chemical reaction

Colloid electrochemistry of saturated cement paste and some properties of cement based materials (Chatterji S), 1997;7:102–108

### Clinker

Oilwell cement clinkers: X-ray microanalysis and phase composition (Hall C, Scrivener KL), 1997;7:28–38

### Closing pressure

Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123–132

### Composite law

Effect of self stress on flexural strength of gypsum-polymer composites (Tazawa E), 1997;7:1–7

### Composite materials

Effects of woven fabric geometry on the bonding performance of cementitious composites: Mechanical performance (Peled A, Bentur A, Yankelevsky D), 1997;7:20–27

Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41–48

Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123–132

### Compressive strength

Approximate strength of lightweight aggregate using micromechanics method (Yang C-C, Huang R), 1997;7:133–138

Autoclaved cement-quartz pastes with metakaolin additions (Klimesch DS, Ray A), 1997;7:109–118

Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41–48

### Concrete

Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41–48

Freezing-induced strains and pressures in wet porous materials and especially in concrete mortars (Penttilä V), 1997;7:8–19

Influence of microstructure on the tritiated water diffusivity

- of mortars (Delagrave A, Marchand J, Pigeon M), 1997;7:60-65
- Microstructural studies of alkali-silica reaction in fly ash concrete immersed in alkaline solutions (Bleszynski RF, Thomas MDA), 1997;7:66-78
- Crack propagation**  
Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41-48
- Crimped yarn pullout**  
Effects of woven fabric geometry on the bonding performance of cementitious composites: Mechanical performance (Peled A, Bentur A, Yankelovsky D), 1997;7:20-27
- C-S-H**  
Determination of the neutron scattering contrast of hydrated Portland cement paste using H<sub>2</sub>O/D<sub>2</sub>O exchange (Thomas JJ, Jennings HM, Allen AJ), 1997;7:119-122
- Diffusivity**  
Influence of microstructure on the tritiated water diffusivity of mortars (Delagrave A, Marchand J, Pigeon M), 1997;7:60-65
- Drying shrinkage**  
Autoclaved cement-quartz pastes with metakaolin additions (Klimesch DS, Ray A), 1997;7:109-118
- DSP**  
Design of fiber-reinforced DSP mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1997;7:89-101
- Efficiency factor**  
Seven-year study on the effect of silica fume in concrete (Persson B), 1997;7:139-155
- Electrochemistry**  
Colloid electrochemistry of saturated cement paste and some properties of cement based materials (Chatterji S), 1997;7:102-108
- Electro-osmosis**  
Electrically induced microstructural changes in Portland cement pastes (Sohn D, Mason TO), 1997;7:81-88
- Energy of fracture**  
Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41-48
- Failure mechanism**  
Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41-48
- Ferrite**  
Oilwell cement clinkers: X-ray microanalysis and phase composition (Hall C, Scrivener KL), 1997;7:28-38
- Fiber pullout**  
Design of fiber-reinforced DSP mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1997;7:89-101  
Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132
- Fiber reinforced concrete**  
Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132
- Finite element method**  
Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132
- Flexural strength**  
Effect of self stress on flexural strength of gypsum-polymer composites (Tazawa E), 1997;7:1-7
- Fly ash concrete**  
Microstructural studies of alkali-silica reaction in fly ash concrete immersed in alkaline solutions (Bleszynski RF, Thomas MDA), 1997;7:66-78
- Fracture**  
Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132
- Fracture mechanics**  
Design of fiber-reinforced DSP mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1997;7:89-101
- Freezing**  
Freezing-induced strains and pressures in wet porous materials and especially in concrete mortars (Penttilä V), 1997;7:8-19
- High strength concretes**  
Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41-48
- High-performance concrete**  
Seven-year study on the effect of silica fume in concrete (Persson B), 1997;7:139-155
- Hydration**  
Seven-year study on the effect of silica fume in concrete (Persson B), 1997;7:139-155
- Hydrogarnet**  
Autoclaved cement-quartz pastes with metakaolin additions (Klimesch DS, Ray A), 1997;7:109-118
- Impedance spectroscopy**  
Electrically induced microstructural changes in Portland cement pastes (Sohn D, Mason TO), 1997;7:81-88
- Interfaces**  
Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41-48
- Interfacial properties**  
Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132
- Interfacial transition zone**  
Influence of microstructure on the tritiated water diffusivity of mortars (Delagrave A, Marchand J, Pigeon M), 1997;7:60-65
- Internal relative humidity**  
Seven-year study on the effect of silica fume in concrete (Persson B), 1997;7:139-155
- Ion diffusion**  
Colloid electrochemistry of saturated cement paste and some properties of cement based materials (Chatterji S), 1997;7:102-108
- J-integral**  
Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132
- Lightweight aggregate**  
Approximate strength of lightweight aggregate using micromechanics method (Yang C-C, Huang R), 1997;7:133-138

### Lightweight concrete

Approximate strength of lightweight aggregate using micromechanics method (Yang C-C, Huang R), 1997;7:133-138

### Metakaolin

Autoclaved cement-quartz pastes with metakaolin additions (Klimesch DS, Ray A), 1997;7:109-118

Development of highly reactive metakaolin from paper sludge (Pera J, Amrouz A), 1997;7:49-56

### Microanalysis

Oilwell cement clinkers: X-ray microanalysis and phase composition (Hall C, Scrivener KL), 1997;7:28-38

### Micromechanics

Approximate strength of lightweight aggregate using micromechanics method (Yang C-C, Huang R), 1997;7:133-138

Design of fiber-reinforced DSP mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1997;7:89-101

### Microstructural parameters

Design of fiber-reinforced DSP mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1997;7:89-101

### Microstructure

Influence of microstructure on the tritiated water diffusivity of mortars (Delagrave A, Marchand J, Pigeon M), 1997;7:60-65

Microstructural studies of alkali-silica reaction in fly ash concrete immersed in alkaline solutions (Bleszynski RF, Thomas MDA), 1997;7:66-78

### Monofilament

Effects of woven fabric geometry on the bonding performance of cementitious composites: Mechanical performance (Peled A, Bentur A, Yankelevsky D), 1997;7:20-27

### Mortar

Freezing-induced strains and pressures in wet porous materials and especially in concrete mortars (Penttilä V), 1997;7:8-19

### Optimization

Design of fiber-reinforced DSP mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1997;7:89-101

### Paper sludge

Development of highly reactive metakaolin from paper sludge (Pera J, Amrouz A), 1997;7:49-56

### Polyethylene

Effects of woven fabric geometry on the bonding performance of cementitious composites: Mechanical performance (Peled A, Bentur A, Yankelevsky D), 1997;7:20-27

### Polymer impregnated gypsum

Effect of self stress on flexural strength of gypsum-polymer composites (Tazawa E), 1997;7:1-7

### Pore fluid

Colloid electrochemistry of saturated cement paste and some properties of cement based materials (Chatterji S), 1997;7:102-108

### Pore structure

Electrically induced microstructural changes in Portland cement pastes (Sohn D, Mason TO), 1997;7:81-88

### Porosity

Influence of microstructure on the tritiated water diffusivity of mortars (Delagrave A, Marchand J, Pigeon M), 1997;7:60-65

### Porous materials

Freezing-induced strains and pressures in wet porous materials and especially in concrete mortars (Penttilä V), 1997;7:8-19

### Portland cement

Quantitative aspects of  $^{27}\text{Al}$  MAS NMR of calcium aluminoferrites (Skibsted J, Jakobsen HJ, Hall C), 1997;7:57-59

### Pozzolan

Development of highly reactive metakaolin from paper sludge (Pera J, Amrouz A), 1997;7:49-56

### Pozzolanic effect

Seven-year study on the effect of silica fume in concrete (Persson B), 1997;7:139-155

### Pressure

Freezing-induced strains and pressures in wet porous materials and especially in concrete mortars (Penttilä V), 1997;7:8-19

### Quantitative NMR analysis of Portland cements

Quantitative aspects of  $^{27}\text{Al}$  MAS NMR of calcium aluminoferrites (Skibsted J, Jakobsen HJ, Hall C), 1997;7:57-59

### SANS

Determination of the neutron scattering contrast of hydrated Portland cement paste using  $\text{H}_2\text{O}/\text{D}_2\text{O}$  exchange (Thomas JJ, Jennings HM, Allen AJ), 1997;7:119-122

### Self stress

Effect of self stress on flexural strength of gypsum-polymer composites (Tazawa E), 1997;7:1-7

### Silica fume

Seven-year study on the effect of silica fume in concrete (Persson B), 1997;7:139-155

### Steel fibers

Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132

### Strains

Freezing-induced strains and pressures in wet porous materials and especially in concrete mortars (Penttilä V), 1997;7:8-19

### Strength

Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132

Seven-year study on the effect of silica fume in concrete (Persson B), 1997;7:139-155

### Super stress

Effect of self stress on flexural strength of gypsum-polymer composites (Tazawa E), 1997;7:1-7

### Surface area

Determination of the neutron scattering contrast of hydrated Portland cement paste using  $\text{H}_2\text{O}/\text{D}_2\text{O}$  exchange (Thomas JJ, Jennings HM, Allen AJ), 1997;7:119-122

### Tensile strength

Failure mechanism of concrete: Combined effects of coarse aggregates and strength level (Giaccio G, Zerbino R), 1997;7:41-48

### Tension softening

Design of fiber-reinforced DSP mixes for minimum brittleness (Lange-Kornbak D, Karihaloo BL), 1997;7:89-101

**Thermodesorption**

Development of highly reactive metakaolin from paper sludge (Pera J, Amrouz A), 1997;7:49-56

**Tobermorite**

Autoclaved cement-quartz pastes with metakaolin additions (Klimesch DS, Ray A), 1997;7:109-118

**Toughening**

Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132

**Toughness**

Finite element simulations of fiber pullout toughening in fiber reinforced cement based composites (Li CY, Mobasher B), 1997;7:123-132

**Tritiated water**

Influence of microstructure on the tritiated water diffusivity of mortars (Delagrave A, Marchand J, Pigeon M), 1997;7:60-65

**Volume ratio**

Approximate strength of lightweight aggregate using micromechanics method (Yang C-C, Huang R), 1997;7:133-138

**Waste**

Development of highly reactive metakaolin from paper sludge (Pera J, Amrouz A), 1997;7:49-56

**Woven fabric**

Effects of woven fabric geometry on the bonding performance of cementitious composites: Mechanical performance (Peled A, Bentur A, Yankelevsky D), 1997;7:20-27

**Yarn**

Effects of woven fabric geometry on the bonding performance of cementitious composites: Mechanical performance (Peled A, Bentur A, Yankelevsky D), 1997;7:20-27