

# Cement, Concrete, and Aggregates

## Index to Volume 12

### 1990

Number	Issue	Pages
1	Summer	3-60
2	Winter	61-128

#### A

**Abrasion loss:** Laboratory Evaluation of Wet and Dry Abrasion Resistance of Cement Mortar (Fwa and Low), Winter, 101

**Abrasion resistance**

Laboratory Evaluation of Wet and Dry Abrasion Resistance of Cement Mortar (Fwa and Low), Winter, 101

Mechanical Properties, Abrasion Resistance, and Chloride Permeability of Concrete Incorporating Blast-Furnace Slag (Fernandez and Malhotra), Winter, 87

**Abrasion test:** Laboratory Evaluation of Wet and Dry Abrasion Resistance of Cement Mortar (Fwa and Low), Winter, 101

**Acceleration:** Molybdenum Trioxide—an Accelerator of Portland Cement Hydration (Fischer), Summer, 53

**Air curing:** Mechanical Properties, Abrasion Resistance, and Chloride Permeability of Concrete Incorporating Blast-Furnace Slag (Fernandez and Malhotra), Winter, 87

**Air voids:** Practical Considerations Pertaining to the Microscopical Determination of Air Void Characteristics of Hardened Concrete (ASTM C 457 Standard) (Pleau, Plante, Gagne, and Pigeon), Summer, 3

**Aitcin, P.-C.:** *see* Mehta, P. K. and Aitcin, P.-C. C.

**Aitcin, P.-C.:** *see* Sarkar, S., Aitcin, P.-C., and Djellouli, H.

**Al-Mana, Al:** *see* Maslehuddin, M., Al-Mana, A. I., Saricimen, H., and Shamim, M.

**Al-Obaid, Y. F.:** The Creep of Concrete Pipes in Kuwait, Winter, 114.

**Anisotropy:** Anisotropy of Concrete Strength (Leshchinsky), Winter, 117

#### B

**Blast-furnace slag:** Corrosion of Reinforcing Steel in Concrete Containing Slag or Pozzolans (Maslehuddin, Al-Mana, Saricimen, and Shamim), Summer, 24

**Blended cements:** Corrosion of Reinforcing Steel in Concrete Containing Slag or Pozzolans (Maslehuddin, Al-Mana, Saricimen, and Shamim), Summer, 24

**Building codes:** Determination of Concrete Strength by Nondestructive Methods (Leshchinsky), Winter, 107

#### C

**Chloride-ion permeability:** Mechanical Properties, Abrasion Resistance, and Chloride Permeability of Concrete Incorporating Blast-Furnace Slag (Fernandez and Malhotra), Winter, 87

**Compressive strength**

Diagnostic Criteria for Anisotropy of Concrete Strength (Leshchinsky), Winter, 117

Determination of Concrete Strength by Nondestructive Methods (Leshchinsky), Winter, 107

**Concrete pipes:** The Creep of Concrete Pipes in Kuwait (Al-Obaid), Winter, 114.

**Concrete strength:** Principles Underlying Production of High-Performance Concrete (Mehta and Aitcin), Winter, 70

**Cores:** Determination of Concrete Strength by Nondestructive Methods (Leshchinsky), Winter, 107

**Corrosion:** Corrosion of Reinforcing Steel in Concrete Containing Slag or Pozzolans (Maslehuddin, Al-Mana, Saricimen, and Shamim), Summer, 24

**Creep:** The Creep of Concrete Pipes in Kuwait (Al-Obaid), Winter, 114.

**Czarnecki, B. and Gillott, J. E.:** The Effect of Mix Design on the Properties of Sulfur Concrete, Winter, 79

#### D

**De Larrard, F.:** A Method for Proportioning High-Strength Concrete Mixtures, Summer, 47

**Djellouli, H.:** *see* Sarkar, S., Aitcin, P.-C., and Djellouli, H.

**Douglas, E., Elola, A., and Malhotra, V.M.:** Characterization of Ground Granulated Blast-Furnace Slags and Fly Ashes and Their Hydration in Portland Cement Blends, Summer, 38

**Durability:** Principles Underlying Production of High-Performance Concrete (Mehta and Aitcin), Winter, 70

#### E

**Elola, A.:** *see* Douglas, E., Elola, A., and Malhotra, V. M.

#### F

**Feng, N.-Q., Li, G.-Z., and Zang, X.-W.:** High-Strength and Flowing Concrete with a Zeolitic Mineral Admixture, Winter, 61.

**Fernandez, L. and Malhotra, V. M.:** Mechanical Properties, Abrasion Resistance, and Chloride Permeability of Concrete Incorporating Blast-Furnace Slag, Winter, 87

**Fischer, H. C.:** Molybdenum Trioxide—an Accelerator of Portland Cement Hydration, Summer, 53

**Fly ash:** Characterization of Ground Granulated Blast-Furnace Slags and Fly Ashes and Their Hydration in Portland Cement Blends (Douglas, Elola, and Malhotra), Summer, 38

**Freezing and thawing:** Practical Considerations Pertaining to the Microscopical Determination of Air Void Characteristics of Hardened Concrete (ASTM C 457 Standard) (Pleau, Plante, Gagne, and Pigeon), Summer, 3

**Fwa, T. F. and Low, E. W.:** Laboratory Evaluation of Wet and Dry Abrasion Resistance of Cement Mortar, Winter, 101

#### G

**Gagne, R.:** *see* Pleau, R., Plante, P., Gagne, R., and Pigeon, M.

**Gillott, J. E.:** *see* Czarnecki, B. and Gillott, J. E.

**Glycerin admixture:** The Effect of Mix Design on the Properties of Sulfur Concrete (Czarnecki and Gillott), Winter, 79

**Gray, R. J.:** Results of an Interlaboratory Concrete Testing Program: Part I, Summer, 12

**Ground granulated blast-furnace slag:** Characterization of Ground Granulated Blast-Furnace Slags and Fly Ashes and Their Hydration in Portland Cement Blends (Douglas, Elola, and Malhotra), Summer, 38

#### H

**High-strength concrete:** A Method for Proportioning High-Strength Concrete Mixtures (de Larrard), Summer, 47

#### I-J

**Impermeability:** Principles Underlying Production of High-Performance Concrete (Mehta and Aitcin), Winter, 70

**Interlaboratory testing program:** Results of an Interlaboratory Concrete Testing Program: Part I (Gray), Summer, 12

#### K

**King Faisal Road:** The Creep of Concrete Pipes in Kuwait (Al-Obaid), Winter, 114.

#### L

**Leshchinsky, A. M.:** Anisotropy of Concrete Strength, Winter, 117

- Leshchinsky, A. M.:** Determination of Concrete Strength by Nondestructive Methods, Winter, 107
- Li, G.-Z.:** *see* Feng, N.-Q., Li, G.-Z., and Zang, X.-W.
- Low, E. W.:** *see* Fwa, T. F. and Low, E. W.

## M

- Malhotra, V. M.:** *see* Douglas, E., Elola, A., and Malhotra, V. M.
- Maslehuddin, M., Al-Mana, A. I., Saricimen, H., and Shamim, M.:** Corrosion of Reinforcing Steel in Concrete Containing Slag or Pozzolans, Summer, 24
- Mehta, P. K. and Aitcin, P.-C. C.:** Principles Underlying Production of High-Performance Concrete, Winter, 70
- Microscopical examination:** Practical Considerations Pertaining to the Microscopical Determination of Air Void Characteristics of Hardened Concrete (ASTM C 457 Standard) (Pleau, Plante, Gagne, and Pigeon), Summer, 3
- Mix proportions:** A Method for Proportioning High-Strength Concrete Mixtures (de Larrard), Summer, 47
- Mix segregation:** Anisotropy of Concrete Strength (Leshchinsky), Winter, 117
- Molybdenum trioxide:** Molybdenum trioxide—an Accelerator of Portland Cement Hydration (Fischer), Summer, 53

## N-O

- Natural zeolite:** High-Strength and Flowing Concrete with a Zeolitic Mineral Admixture (Feng, Li, and Zang), Winter, 61.

## P-Q

- Particle size distribution:** Characterization of Ground Granulated Blast-Furnace Slags and Fly Ashes and Their Hydration in Portland Cement Blends (Douglas, Elola, and Malhotra), Summer, 38
- Pigeon, M.:** *see* Pleau, R., Plante, P., Gagne, R., and Pigeon, M.
- Plante, P.:** *see* Pleau, R., Plante, P., Gagne, R., and Pigeon, M.
- Pleau, R., Plante, P., Gagne, R., and Pigeon, M.:** Practical Considerations Pertaining to the Microscopical Determination of Air Void Characteristics of Hardened Concrete (ASTM C 457 Standard), Summer, 3
- Portland cement hydration:** Molybdenum Trioxide—an Accelerator of Portland Cement Hydration (Fischer), Summer, 53

## R

- Rheological models:** A Method for Proportioning High-Strength Concrete Mixtures (de Larrard), Summer, 47

## S-T-U

- Saricimen, H.:** *see* Maslehuddin, M., Al-Mana, A. I., Saricimen, H., and Shamim, M.
- Sarkar, S., Aitcin, P.-C., and Djellouli, H.:** Synergistic Roles of Slag and Silica Fume in Very High-Strength Concrete, Summer, 32
- Shamim, M.:** *see* Maslehuddin, M., Al-Mana, A. I., Saricimen, H., and Shamim, M.
- Silane admixtures:** The Effect of Mix Design on the Properties of Sulfur Concrete (Czarnecki and Gillott), Winter, 79

- Silica fume:** Synergistic Roles of Slag and Silica Fume in Very High-Strength Concrete (Sarkar, Aitcin, and Djellouli), Summer, 32
- Slag:** Synergistic Roles of Slag and Silica Fume in Very High-Strength Concrete (Sarkar, Aitcin, and Djellouli), Summer, 32
- Sulfur concrete:** The Effect of Mix Design on the Properties of Sulfur Concrete (Czarnecki and Gillott), Winter, 79

## V

- Variability:** Results of an Interlaboratory Concrete Testing Program: Part I (Gray), Summer, 12
- Very high-strength concrete:** Synergistic Roles of Slag and Silica Fume in Very High-Strength Concrete (Sarkar, Aitcin, and Djellouli), Summer, 32

## W-X-Y

- Within- and between-laboratory:** Results of an Interlaboratory Concrete Testing Program: Part I (Gray), Summer, 12

## Z

- Zang, X.-W.:** *see* Feng, N.-Q., Li, G.-Z., and Zang, X.-W.
- Zeolitic mineral admixture:** High-Strength and Flowing Concrete with a Zeolitic Mineral Admixture (Feng, Li, and Zang), Winter, 61.
- ZMA:** High-Strength and Flowing Concrete with a Zeolitic Mineral Admixture (Feng, Li, and Zang), Winter, 61.