

Cement, Concrete, and Aggregates

Index to Volume 3

1981

A-B

Abrasion: Abrasion-erosion resistance of fiber-reinforced concrete (Liu and McDonald), Winter, 93

Abrasion resistance: Relative resistance of rained-on concrete pavements to abrasion, skidding, and scaling (Dahir), Summer, 13

Aggregates

Abrasion-erosion resistance of fiber-reinforced concrete (Liu and McDonald), Winter, 93

Proportioning of coarse aggregate for conventionally and gap-graded concrete (Ehrenburg), Summer, 37

Aggressive attack of fluid: Attack of aggressive fluids (Ivanov), Winter, 105

Alkali aggregate reactions: Effect of fly ash on concrete alkali-aggregate reaction (Dunstan), Winter, 101

Anions: State of solutes in concrete with hydrating tricalcium silicate pastes (Punzet-Karpisek), Summer, 68

Aqueous electrolytes: State of solutes in concrete with hydrating tricalcium silicate pastes (Punzet-Karpisek), Summer, 68

Ansari, F.: *see* Shah, S. P., Gokoz, U., and Ansari, F.

Area: Proportioning of coarse aggregate for conventionally and gap-graded concrete (Ehrenburg), Summer, 37

Ashes: Production of artificial porous aggregates from fuel-containing industrial wastes in the USSR (Ivanenko and Vasilkov), Winter, 108

Book reviews

Expansion Concrete by American Concrete Institute (Kelly), Winter, 111

High Strength Concrete by Shah (Popovics), Winter, 111

New Concrete Technologies and Building Design by Neville and Chatterton (Faber), Summer, 72

Performance of Concrete in Marine Environment by Malhotra (Cady), Summer, 71

Progress in Concrete Technology by Malhotra (Mather), Summer, 71

By-products: Production of artificial porous aggregates from fuel-containing industrial wastes in the USSR (Ivanenko and Vasilkov), Winter, 108

C

Cady, P. D.: Review of *Performance of Concrete in Marine Environment* by Malhotra, Summer, 71

Carbon tetrachloride: Investigation of ASTM paste and mortar bleeding tests (Kemp), Summer, 28

Cements: Use of the maleic acid method for the determination of cement content of concrete (Marusin), Winter, 89

Chang, C. J.: *see* Woelfl, G. A., McNeerney, M., and Chang, C. J.

Chemical properties: Effect of fly ash on concrete alkali-aggregate reaction (Dunstan), Winter, 101

Compression tests: Experimental technique for obtaining complete stress-strain curves for high strength concrete (Shah, Gokoz, and Ansari), Summer, 21

Compressive strength: Abrasion-erosion resistance of fiber-reinforced concrete (Liu and McDonald), Winter, 93

Concrete dams: Condition of concrete in Martin Dam after 50 years of service (Mather), Summer, 53

Concrete durability

Attack of aggressive fluids (Ivanov), Winter, 105

Condition of concrete in Martin dam after 50 years of service (Mather), Summer, 53

Concrete pavements: Relative resistance of rained-on concrete pavements to abrasion, skidding, and scaling (Dahir), Summer, 13

Concretes

Inertial effects in the instrumented impact testing of cementitious composites (Suaris and Shah), Winter, 77

Influence of pozzolanic, slag, and chemical admixtures on pore size distribution and permeability of hardened cement pastes (Manmohan and Mehta), Summer, 63

D-H

Dahir, S. H.: Relative resistance of rained-on concrete pavements to abrasion, skidding, and scaling, Summer, 13

Dunstan, E. R.: Effect of fly ash on concrete alkali-aggregate reaction, Winter, 101

Ehrenburg, D. O.: Proportioning of coarse aggregate for conventionally and gap-graded concrete, Summer, 37

Faber, J. H.: Review of *New Concrete Technologies and Building Design* by Neville and Chatterton, Summer, 72

Fatigue (materials): Flexural fatigue of polymer concrete (Woelfl, McNeerney, and Chang), Winter, 84

Flotation: Investigation of ASTM paste and mortar bleeding tests (Kemp), Summer, 28

Free water: Use of the maleic acid method for the determination of cement content of concrete (Marusin), Winter, 89

Garrett, M. F.: *see* Gulyas, R. J. and Garrett, M. F.

Gokoz, U.: *see* Shah, S. P., Gokoz, U., and Ansari, F.

Granular materials: Evaluation for durability and strength development of a ground granulated blast furnace slag (Hogan and Meusel), Summer, 40

Gulyas, R. J. and Garrett, M. F.: Action and application of two new ASTM specifications for shrinkage-compensating cement in concrete: ASTM C 845 and C 878, Summer, 3

High strength concretes: Experimental technique for obtaining complete stress-strain curves for high strength concrete (Shah, Gokoz, and Ansari), Summer, 21

Hogan, F. J. and Meusel, J. W.: Evaluation for durability and strength development of a ground granulated blast furnace slag, Summer, 40

Hydration: State of solutes in concrete with hydrating tricalcium silicate pastes (Punzet-Karpisek), Summer, 68

I-L

Impact tests: Inertial effects in the instrumented impact testing of cementitious composites (Suaris and Shah), Winter, 77

Industrial wastes: Production of artificial porous aggregates from fuel-containing industrial wastes in the USSR (Ivanenko and Vasilkov), Winter, 108

Ivanenko, G. P. and Vasilkov, S. G.: Production of artificial porous aggregates from fuel-containing industrial wastes in the USSR, Winter, 108

Ivanov, F. M.: Attack of aggressive fluids, Winter, 105

Kelly, J. E., III: Review of *Expansion Cement SP-64* by American Concrete Institute, Winter, 111

Kemp, B. G.: Investigation of ASTM paste and mortar bleeding tests, Summer, 28

Liu, T. C. and McDonald, J. E.: Abrasion-erosion resistance of fiber-reinforced concrete, Winter, 93

M

Maleic acid: Use of the maleic acid method for the determination of cement content of concrete (Marusin), Winter, 89

Manmohan, D. and Mehta, P. K.: Influence of pozzolanic, slag, and chemical admixtures on pore size distribution and permeability of hardened cement pastes, Summer, 63

Marusin, S. L.: Use of the maleic acid method for the determination of cement content of concrete, Winter, 89

Mather, B.: Review of *Progress in Concrete Technology* by Malhotra, Summer, 71

Mather, K.: Condition of concrete in Martin Dam after 50 years of service, Summer, 53

- McDonald, J. E.:** *see* Liu, T. C. and McDonald, J. E.
- McNerney, M.:** *see* Woelfl, G. A., McNerney, M., and Chang, C. J.
- Mechanical properties:** Condition of concrete in Martin Dam after 50 years of service (Mather), Summer, 53
- Mehta, P. K.:** *see* Manmohan, D. and Mehta, P. K.
- Meusel, J. W.:** *see* Hogan, F. J. and Meusel, J. W.
- Modulus of rupture tests:** Flexural fatigue of polymer concrete (Woelfl, McNerney, and Chang), Winter, 84
- Mortars (material):** Investigation of ASTM paste and mortar bleeding tests (Kemp), Summer, 28

P

- Permeability:** Influence of pozzolanic, slag, and chemical admixtures on pore size distribution and permeability of hardened cement pastes (Manmohan and Mehta), Summer, 63
- Popovics, S.:** Review of *High Strength Concrete* by Shah, Winter, 111
- Portland cements**
Evaluation for durability and strength development of a ground granulated blast furnace slag (Hogan and Meusel), Summer, 40

- Action and application of two new ASTM specifications for shrinkage-compensation cement in concrete: ASTM C 845 and C 878 (Gulyas and Garrett), Summer, 3
- Effect of fly ash on concrete alkali-aggregate reaction (Dunstan), Winter, 101
- Influence of pozzolanic, slag, and chemical admixtures on pore size distribution and permeability of hardened cement pastes (Manmohan and Mehta), Summer, 63
- Probability:** Flexural fatigue of polymer concrete (Woelfl, McNerney, and Chang), Winter, 84
- Proportioning:** Proportioning of coarse aggregate for conventionally and gap-graded concrete (Ehrenburg), Summer, 37
- Punzet-Karpisek, M.:** State of solutes in contact with hydrating tricalcium silicate pastes, Summer, 68

S-W

- Shah, S. P.**
Gokoz, U., and Ansari, F.:
Experimental technique for obtaining complete stress-strain curves for high strength concrete, Summer, 21
see Suaris, W. and Shah, S. P.
- Skid resistance:** Relative resistance of rained-on concrete pavements to abrasion, skidding, and scaling (Dahir), Summer, 13
- Slags:** Evaluation for durability and strength development of a ground granulated blast furnace slag (Hogan and Meusel), Summer, 40
- Strain rate:** Inertial effects in the instrumented impact testing of cementitious composites (Suaris and Shah), Winter, 77
- Strains:** Action and application of two new ASTM specifications for shrinkage-compensating cement in concrete: ASTM C 845 and C 878 (Gulyas and Garrett), Summer, 3
- Stress strain diagrams:** Experimental technique for obtaining complete stress-strain curves for high strength concrete (Shah, Gokoz, and Ansari), Summer, 21
- Stresses:** Action and application of two new ASTM specifications for shrinkage-compensation cement in concrete: ASTM C 845 and C 878 (Gulyas and Garrett), Summer, 3
- Suaris, W. and Shah, S. P.:** Inertial effects in the instrumented impact testing of cementitious composites, Winter, 77
- Vasilkov, S. G.:** *see* Ivanenko, G. P. and Vasilkov, S. G.
- Water:** Attack of aggressive fluids (Ivanov), Winter, 105
- Woelfl, G. A., McNerney, M., and Chang, C. J.:** Flexural fatigue of polymer concrete, Winter, 84