
CONTENTS

Volume 7, Number 1, January 1998

ORIGINAL ARTICLES

- Effect of Self Stress on Flexural Strength of Gypsum-Polymer Composites 1
Ei-ichi Tazawa

- Freezing-Induced Strains and Pressures in Wet Porous Materials and Especially in Concrete Mortars 8
Vesa Penttala

- Effects of Woven Fabric Geometry on the Bonding Performance of Cementitious Composites: Mechanical Performance 20
Alva Peled, Arnon Bentur, and David Yankelevsky

- Oilwell Cement Clinkers: X-ray Microanalysis and Phase Composition 28
Christopher Hall and Karen L. Scrivener

- CALENDAR** 39

- ANNOUNCEMENTS** 40

CONTENTS

Volume 7, Number 2, March 1998

ORIGINAL ARTICLES

- Failure Mechanism of Concrete: Combined Effects of Coarse Aggregates and Strength Level 41
G. Giaccio and R. Zerbino

- Development of Highly Reactive Metakaolin from Paper Sludge 49
Jean Pera and Achène Amrouz

- Quantitative Aspects of ^{27}Al MAS NMR of Calcium Aluminoferrites 57
Jørgen Skibsted, Hans J. Jakobsen, and Christopher Hall

- Influence of Microstructure on the Tritiated Water Diffusivity of Mortars 60
Anik Delagrave, Jacques Marchand, and Michel Pigeon

- Microstructural Studies of Alkali-Silica Reaction in Fly Ash Concrete Immersed in Alkaline Solutions 66
Roland F. Bleszynski and Michael D.A. Thomas

- CALENDAR** 79

- ANNOUNCEMENT** 80

ORIGINAL ARTICLES

- Electrically Induced Microstructural Changes in Portland Cement Pastes **81**
Donggy Sohn and Thomas O. Mason
- Design of Fiber-Reinforced DSP Mixes for Minimum Brittleness **89**
D. Lange-Kornbak and B.L. Karihaloo
- Colloid Electrochemistry of Saturated Cement Paste and Some Properties of Cement Based Materials **102**
S. Chatterji
- Autoclaved Cement-Quartz Pastes with Metakaolin Additions **109**
Danielle S. Klimesch and Abhi Ray
- Determination of the Neutron Scattering Contrast of Hydrated Portland Cement Paste Using H₂O/D₂O Exchange **119**
Jeffrey J. Thomas, Hamlin M. Jennings, and Andrew J. Allen
- Finite Element Simulations of Fiber Pullout Toughening in Fiber Reinforced Cement Based Composites **123**
Cheng Yu Li and Barzin Mobasher
- Approximate Strength of Lightweight Aggregate Using Micromechanics Method **133**
Chung-Chia Yang and Ran Huang
- Seven-Year Study on the Effect of Silica Fume in Concrete **139**
Bertil Persson

CALENDAR**156**