CONTENTS	Volume 5, Number 1, January 1997	
	ORIGINAL ARTICLES Interparticle Potential and Sedimentation Behavior of Cement Suspensions Review and Results from Paste M. Yang, C.M. Neubauer, and H.M. Jennings	1
	Effects of Transition Zone Densification On Fiber/Cement Paste Bond Strength Improvement <i>Yin-Wen Chan and Victor C. Li</i>	8
	Splitting Tension Tests to Determine Concrete Fracture Parameters by Peak-Load Method Sungchul Yang, Tianxi Tang, Dan G. Zollinger, and Ashok Gurjar	18
	Calendar	29
CONTENTS	Volume 5, Number 2, March 1997	
	REVIEW ARTICLE Recent Progress in Concrete-Polymer Composites <i>Yoshihiko Ohama</i>	31
	ORIGINAL ARTICLES Dielectric Amplification in Cement Pastes S.J. Ford, JH. Hwang, J.D. Shane, R.A. Olson, G.M. Moss, H.M. Jennings, and T.O. Mason	41
	Accelerated Strength and Testing of Concrete Using Blended Cement Musa R. Resheidat and Mwafag S. Ghanma	49
	A Pullout Test for Determining Interface Properties between Rebar and Concrete W. Yeih, R. Huang, J.J. Chang, and C.C. Yang	57
	Calendar	67

CONTENTS

Volume 5, Numbers 3/4, April/May 1997

A Reply to Discussion by B. Mather of the Paper "The Process of		
Discussion of "The Process of Sulfate Attack on Cement Mortars" by Shen Yang, Xu Zhongzi, and Tang Mingshu Bryant Mather		
Durability of Glass Fiber Reinforced Cement Composites: Effect of Silica Fume and Metakaolin Shashidhara Marikunte, Corina Aldea, and Surendra P. Shah	100	
Raman Spectroscopy of C-S-H, Tobermorite, and Jennite R. James Kirkpatrick, J.L. Yarger, Paul F. McMillan, Ping Yu, and Xiandong Cong		
Influence of the Interfacial Zone on the Chloride Diffusivity of Mortars A. Delagrave, J.P. Bigas, J.P. Ollivier, J. Marchand, and M. Pigeon	86	
Shear of Structural Concrete Members and Pure Mode II Testing Hans W. Reinhardt, Joško Ožbolt, Shilang Xu and Abebe Dinku		
ORIGINAL ARTICLES Damping Maximum of Hardened Cement Paste (hcp) in the region of -90°C: A Mechanical Relaxation Process Xuejin Xu and Max Josef Setzer		

CONTENTS	Volume 6, Number 1, June 1997	
	REVIEW ARTICLE Interface Property Characterization and Strengthening Mechanisms in Fiber Reinforced Cement Based Composites Victor C. Li and Henrik Stang	1
	ORIGINAL ARTICLES Controlled Rate Thermal Treatment of Reactive Powder Concretes A. Feylessoufi, M. Crespin, P. Dion, F. Bergaya, H. Van Damme, and P. Richard	21
	Chloride Binding Capacity of Various Hydrated Cement Paste Systems Anik Delagrave, Jacques Marchand, Jean-Pierre Ollivier, Simone Julien, and Kati Hazrati	28
	Calendar	36
	Announcements	37
CONTENTS	Volume 6, Number 2, August 1997	
	ORIGINAL ARTICLES Mathematical Modeling of a Concrete Surface "Skin Effect" on Diffusion in Chloride Contaminated Media Carmen Andrade, Jose Miguel Díez, and Cruz Alonso	39
	Chemical Characterization of Calcium Aluminate-Phenol Resin Composite Game Kankanamge Dinilprem Pushpalal, Toshio Kawano, Tadashi Kobayashi, and Masaki Hasegawa	45
	Early Strength Development and Hydration of Ordinary Portland Cement/Calcium Aluminate Cement Pastes Ping Gu, James J. Beaudoin, Edmond G. Quinn, and Robert E. Myers	53
	A New Generation of High Performance Concrete: Concrete with Autogenous Curing Silvia Weber and Hans W. Reinhardt	59
	Calendar	69
	Announcement	70

ORIGINAL ARTICLES Nonlinear Transient Phenomena in Porous Media with Special Regard to Concrete and Durability B.F. Johannesson	7 1
Discrete Modeling of Short-Fiber Reinforcement in Cementitious Composites J.E. Bolander Jr. and S. Saito	76
Influence of Microstructural Change under Stress on the Strength-Related Properties of Hardened Cement Mortar and Paste Hiroshi Uchikawa, Shunsuke Hanehara, and Hiroshi Hirao	87
Analytical Formulas for Interfacial Transition Zone Properties Edward J. Garboczi and Dale P. Bentz	99
Study of the Degree of Hydration of Concrete by Means of Image Analysis and Chemically Bound Water M. Mouret, A. Boscoul, and G. Escadeillas	109
Microwave Processing of Glass-Fiber Reinforced Composites—Modification of the Microstructure Jean Pera, Jean Ambroise, and Madeleine Oriol	116
The Use of Mercury Intrusion Porosimetry or Helium Porosity to Predict the Moisture Transport Properties of Hardened Cement Paste G. Hedenblad	123
Microstructural Based Modelling of the Elastic Modulus of Fiber Reinforced Cement Composites Albert Ngollè and Jean Péra	130
Durability of Simulated Shredded Rubber Tire in Highly Alkaline Environments H. Huynh and D. Raghaven	138
Cement Based Cross-Ply Laminates A. Pivacek, G.J. Haupt, and B. Mobasher	144
Calendar	153
Announcements	154
AUTHOR INDEX TO VOLUME 5	155
SUBJECT INDEX TO VOLUME 5	156
AUTHOR INDEX TO VOLUME 6	159
SUBJECT INDEX TO VOLUME 6	160
Volume Contents	164