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978-1-107-40564-6 - Cement-Based Composites: Strain Rate Effects on Fracture:

Materials Research Society Symposia Proceedings: Volume 64

Editors: Sidney Mindess and Surendra P. Shah

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Contents

PREFACE	ix
*STRAIN RATE EFFECTS ON THE TENSILE STRENGTH OF CONCRETE AS PREDICTED BY THERMODYNAMIC AND FRACTURE MECHANICS MODELS H.W. Reinhardt	1
STRAIN RATE EFFECTS ON CONCRETE AND REINFORCEMENTS, AND THEIR CONTRIBUTIONS TO STRUCTURES J-I. Takeda	15
RATE-SENSITIVITY OF MODE I AND MODE II FRACTURE OF CONCRETE S.P. Shah and R. John	21
INFLUENCE OF THE CRACK OPENING RATE ON THE FRACTURE TOUGHNESS OF PLAIN CONCRETE P. Rossi, C. Boulay, P. Acker and Y. Malier	39
CRACK GROWTH IN HARDENED CEMENT PASTE K.D. Baldie and P.L. Pratt	47
CONTINUUM DAMAGE MECHANICS STUDIES ON THE DYNAMIC FRACTURE OF CONCRETE E.P. Chen	63
ELLIPTICAL SURFACE REPRESENTATION OF CONTINUUM VECTORIAL DAMAGE R.G. Galloway	79
TENSILE STRENGTH OF CONCRETE AT DIFFERENT STRAIN RATES P. Soroushian, K-B. Choi and G. Fu	87
EFFECT OF THE LOADING RATE ON THE TENSILE STRENGTH OF CONCRETE M.A. Glinicki	93
STRAIN RATE EFFECTS ON TENSILE PROPERTIES OF FIBER REINFORCED CONCRETE G.G. Nammur and A.E. Naaman	97
*DYNAMIC COMPRESSIVE STRENGTH OF CEMENTITIOUS MATERIALS L.E. Malvern, T. Tang, D.A. Jenkins and J.C. Gong	119
ENERGY CHANGES DURING CRACK EXTENSION IN COMPRESSION M.El-Rahman and N.G. Shrive	139
COMPRESSIVE STRAIN RATE EFFECTS OF CONCRETE P.H. Bischoff and S.H. Perry	151
*Invited Paper	

EFFECTS OF LOADING RATE ON CRACKING OF CEMENT PASTE IN COMPRESSION D. Darwin and E.K. Attiogbe	167
*CONCRETE AND FIBER REINFORCED CONCRETE SUBJECT TO IMPACT LOADING S.P. Shah	181
AN IMPACT DAMAGE MODEL OF CONCRETE A.S. Kobayashi, N.M. Hawkins and J.J. Du	203
CRACK DEVELOPMENT IN CEMENTITIOUS MATERIALS UNDER IMPACT LOADING S. Mindess, N.P. Banthia, A. Ritter and J.P. Skalny	217
THE FRACTURE OF REINFORCED CONCRETE UNDER IMPACT LOADING A. Bentur, S. Mindess and N.P. Banthia	225
BEHAVIOUR UNDER EXPLOSIVE LOADING OF CONCRETE REINFORCED WITH POLYMER GRIDS B. Hobbs, A.J. Watson and P.N. Oldroyd	235
RESPONSE OF CONFINED CONCRETE TO CYCLIC LOADING AT VARIOUS SLOW STRAIN RATES S.H. Perry, A.H. Al-Shaikh and H.K. Cheong	245
DETERMINATION OF THE FRACTURE TOUGHNESS PARAMETERS FOR AN MDF CEMENT COMPOSITE M. Arzamendi, R.L. Sierakowski and W.E. Wolfe	257
AUTHOR INDEX	267
SUBJECT INDEX	269

*Invited Paper

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Preface

There is increasing interest in the effect of high strain rates on the mechanical properties of cementitious materials. However, the response of concrete structures, or even single elements, to impact or impulsive loading is still not understood. If we are to be able to design structures for very high loading rates, much more work will have to be done in this area; this symposium is a step in that direction.

The papers in this symposium deal with both the fundamental concepts of high strain rate loading, and with experimental studies of strain rate effects on cementitious materials. The papers in this volume, with the exception of two, were all presented orally at the Symposium. Unfortunately, two papers which were on the Symposium program were never put into manuscript form. The papers are not ordered as in the original program; rather, they have been arranged according to topic areas.

We would like to thank the sponsors of the Symposium for their financial support; the anonymous reviewers; and the Material Research Society officers and staff. We would also like to thank Mrs. Kelly Lamb for her efficient clerical support.

Sidney Mindess
Surendra P. Shah
March 1986