CONTENTS

PREFACE ................................................................. iii

SHOULD DESIGN CODES CONSIDER
FRACTURE MECHANICS SIZE EFFECT?
by Z.P. Bažant ....................................................... 1

SIZE EFFECT IN REINFORCED FLEXURAL MEMBERS
by W.H. Gerstle, P. Rahulkumar, P.P. Dey,
and M. Xie ............................................................ 25

MIXED MODE FRACTURE CONCEPTS IN
STRUCTURAL CONCRETE DESIGN
by O. Buyukozturk and K.M. Lee ................................. 47

FRACTURE MECHANICS APPROACHES IN
MODELING THE PULLOUT OF ANCHOR BOLTS
by L. Elfgren and S.E. Swartz .................................... 63

COMPUTER SIMULATION OF PULLOUT TESTS
OF HEADED ANCHORS IN A STATE OF PLANE-STRESS
by R. Pukl, R. Eligehausen, and V. Červenka ..................... 79

APPLICATION OF FRACTURE MECHANICS
TO STEEL-CONCRETE BOND ANALYSIS
by S.L. McCabe, D. Darwin, O.C. Choi,
and H. Hadje-Ghaffari ........................................... 101

DESIGNING FOR THE EFFECT OF PROGRESSIVE
CRACKING IN REINFORCED CONCRETE SLABS
by C.T. Jan ............................................................ 115

CRACK CONTROL DESIGN OF REINFORCED
CONCRETE BEAMS IN FLEXURE
by W.M. Ashmawi, M.H. Baluch, and A.K. Azad ............... 133