

Table of Contents

Preface / Foreword

Extraction of Stress Intensity Factors for the Simulation of 3-D Crack Growth with the Generalized Finite Element Method J. Garzon, C.A. Duarte and J.P. Pereira	1
Multiple Crack Growth and Coalescence in Meshfree Methods with A distance Function-Based Enriched Kernel E. Barbier and N. Petrinic	37
Fatigue Multi-Cracks Growths in Plates Using J-Integral Approach with a Developed Home FEM Software H. Hosseini-Toudeshky, B. Mohammadi and P. Saniei	61
Multiscale Fracture in Peeling of Highly Oriented Pyrolytic Graphite B. Yang and N. Vijayanand	71
Modelling of Crack Propagation in Anisotropic Material Using Single-Domain Boundary Element Method C.C. Ke, W.R. Lee, S.M. Hsu and C.S. Chen	87
Dual BEM Formulation Applied to Analysis of Multiple Crack Propagation H.L. Oliveira and E.D. Leonel	99
Extent of the Surface Region in Notched Middle Cracked Tension Specimens R. Branco, F.V. Antunes and J.D. Costa	107
Multiple Crack Propagation with Dual Boundary Element Method in Stiffened and Reinforced Full Scale Aeronautic Panels R.G. Citarella, G. Crici and E. Armentani	129
Vibration of Functionally Graded Material Plates with Cutouts & Cracks in Thermal Environment A.A. Rahimabadi, S. Natarajan and S.P. Bordas	157