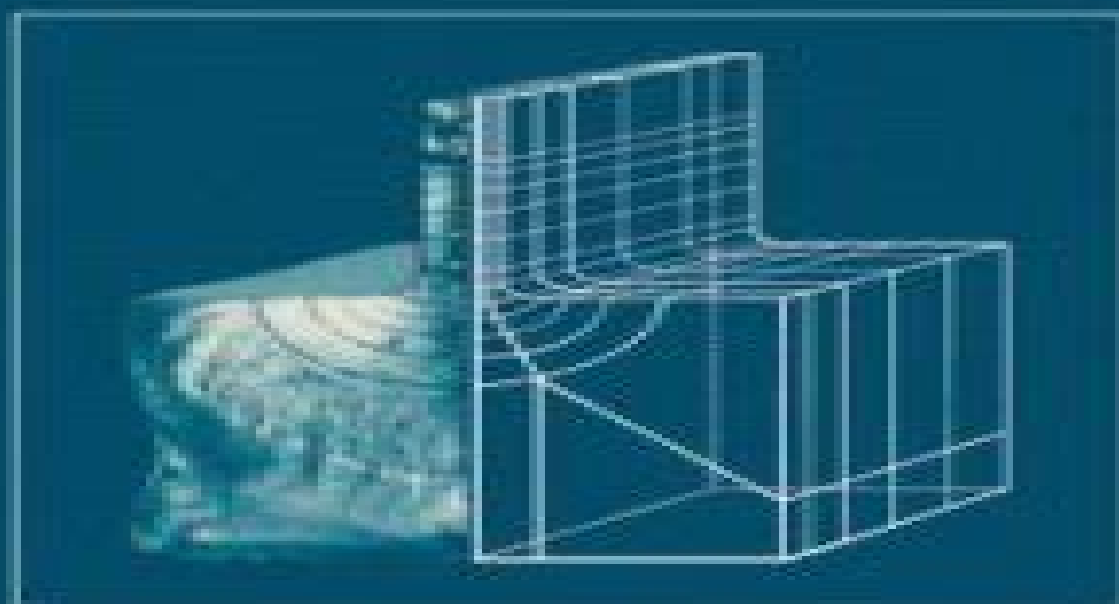


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Numerical Methods in Fracture Mechanics A. R. Luxmoore,D. R. J. Owen,1978 A Compendium of Special Crack-tip Elements and Techniques in Numerical Fracture Mechanics V. Murti,Somasundaram Valliappan,1986

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Advances in the use of numerical fracture mechanics NAFEMS Awareness Seminar, 2000 *Coupled Experimental-numerical Fracture Mechanics* Hadi Haeri, 2015-03-11 *Finite Elements in Fracture Mechanics* Meinhard Kuna, 2013-07-19 Fracture mechanics has established itself as an important discipline of growing interest to those working to assess the safety reliability and service life of engineering structures and materials In order to calculate the loading situation at cracks and defects nowadays numerical techniques like finite element method FEM have become indispensable tools for a broad range of applications The present monograph provides an introduction to the essential concepts of fracture mechanics its main goal being to procure the special techniques for FEM analysis of crack problems which have to date only been mastered by experts All kinds of static dynamic and fatigue fracture problems are treated in two and three dimensional elastic and plastic structural components The usage of the various solution techniques is demonstrated by means of sample problems selected from practical engineering case studies The primary target group includes graduate students researchers in academia and engineers in practice **Engineering Fracture Mechanics** D. R. J. Owen, A. J. Fawkes, 1983

Numerical Methods in Fracture Mechanics International Conference on Numerical Methods in Fracture Mechanics (Swansea), 1984 Fracture mechanics of concrete: Structural application and numerical calculation George C. Sih, A. Ditomasso, 2012-12-06 Concrete has traditionally been known as a material used widely in the construction of roads bridges and buildings Since cost effectiveness has always been one of the more important aspects of design concrete when reinforced and or prestressed is finding more use in other areas of application such as floating marine structures storage tanks nuclear vessel containments and a host of other structures Because of the demand for concrete to operate under different loading and environmental conditions increasing attention has been paid to study concrete specimens and structure behavior A subject of major concern is how the localized segregation of the constituents in concrete would affect its global behavior The degree of nonhomogeneity due to material property and damage by yielding and or cracking depends on the size scale and loading rate under consideration Segregation or clustering of aggregates at the macroscopic level will affect specimen behavior to a larger degree than it would to a large structure such as a dam Hence a knowledge of concrete behavior over a wide range of scale is desired The parameters governing micro and macro cracking and the techniques for evaluating and observing the damage in concrete need to be better understood This volume is intended to be an attempt in this direction The application of Linear Elastic Fracture Mechanics to concrete is discussed in several of the chapters **Fracture Mechanics** Satya N. Atluri, Ashok Saxena, David L. McDowell, 1992 Papers of the June 1990 meeting held in Atlanta Ga The first volume 47 papers concentrates on experimental and theoretical aspects of fracture mechanics Volume two 26 papers covers numerical and computational approaches Topics include ductile fracture high temperature and time dependent fr

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