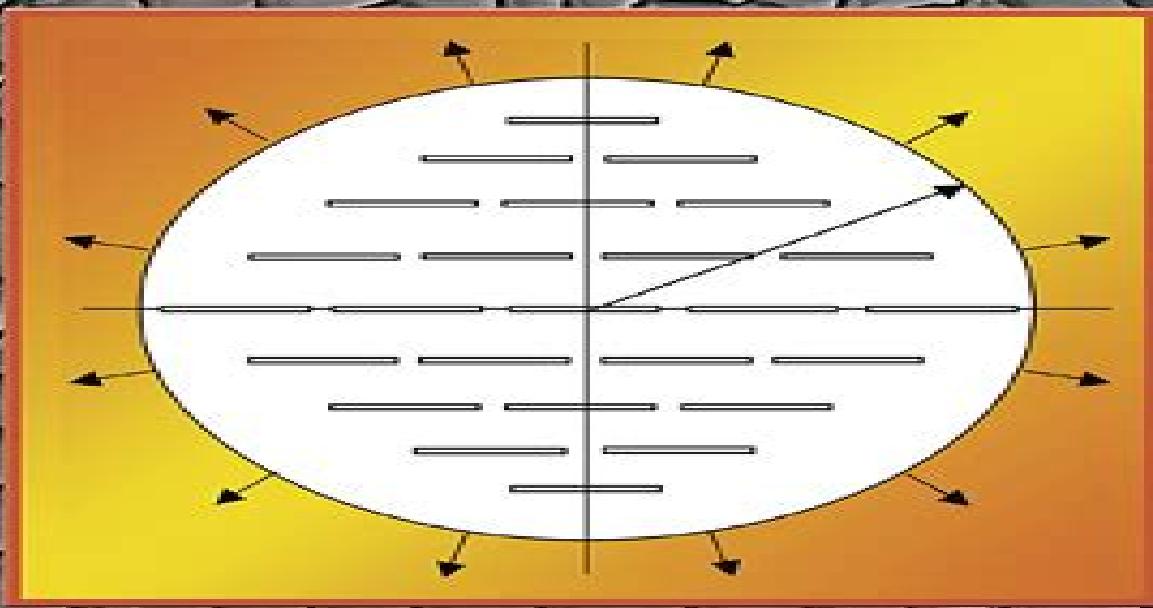


Authors: Y.Z. Chen, N. Hasebe & K.Y. Lee

# MULTIPLE CRACK PROBLEMS IN ELASTICITY



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# Multiple Crack Problems In Elasticity

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## **Multiple Crack Problems In Elasticity:**

**Multiple Crack Problems in Elasticity** Y. Z. Chen,N. Hasebe,Kang-Yong Lee,2003-01 The authors investigate various integral equations for multiple crack problems in plane elasticity Formulation of the problems is based on relevant elementary solutions in which the complex variable function method is used [Crack Analysis in Structural Concrete](#) Zihai Shi,2009-06-17 This new book on the fracture mechanics of concrete focuses on the latest developments in computational theories and how to apply those theories to solve real engineering problems Zihai Shi uses his extensive research experience to present detailed examination of multiple crack analysis and mixed mode fracture Compared with other mature engineering disciplines fracture mechanics of concrete is still a developing field with extensive new research and development In recent years many different models and applications have been proposed for crack analysis the author assesses these in turn identifying their limitations and offering a detailed treatment of those which have been proved to be robust by comprehensive use After introducing stress singularity in numerical modelling and some basic modelling techniques the Extended Fictitious Crack Model EFCM for multiple crack analysis is explained with numerical application examples This theoretical model is then applied to study two important issues in fracture mechanics crack interaction and localization and fracture modes and maximum loads The EFCM is then reformulated to include the shear transfer mechanism on crack surfaces and the method is used to study experimental problems With a carefully balanced mixture of theory experiment and application Crack Analysis in Structural Concrete is an important contribution to this fast developing field of structural analysis in concrete Latest theoretical models analysed and tested Detailed assessment of multiple crack analysis and multi mode fractures Applications designed for solving real life engineering problems [Frattura ed Integrità Strutturale: Annals 2012](#) Francesco Iacoviello,Luca Susmel,John Yates,2012-10-03 [FAA/NASA International Symposium on Advanced Structural Integrity Methods for Airframe Durability and Damage Tolerance](#) Charles E. Harris,1994 [Applied Mechanics Reviews](#) ,1979 [Innovative Numerical Approaches for Multi-Field and Multi-Scale Problems](#) Kerstin Weinberg,Anna Pandolfi,2016-06-24 This book provides readers with a detailed insight into diverse and exciting recent developments in computational solid mechanics documenting new perspectives and horizons The topics addressed cover a wide range of current research from computational materials modeling including crystal plasticity micro structured materials and biomaterials to multi scale simulations of multi physics phenomena Particular emphasis is placed on pioneering discretization methods for the solution of coupled non linear problems at different length scales The book written by leading experts reflects the remarkable advances that have been made in the field over the past decade and more largely due to the development of a sound mathematical background and efficient computational strategies The contents build upon the 2014 IUTAM symposium celebrating the 60th birthday of Professor Michael Ortiz to whom this book is dedicated His work has long been recognized as pioneering and is a continuing source of inspiration for many researchers It is hoped that by

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