

MECHANICS OF FRACTURE

METHODS OF ANALYSIS AND SOLUTIONS OF CRACK PROBLEMS

Edited by

G. C. Sih



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Methods Of Analysis And Solutions Of Crack Problems

Wayne D. Milestone



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Methods of Analysis and Solutions of Crack Problems George C. Sih, 2014-03-14 It is well known that the traditional failure criteria cannot adequately explain failures which occur at a nominal stress level considerably lower than the ultimate strength of the material. The current procedure for predicting the safe loads or safe useful life of a structural member has been evolved around the discipline of linear fracture mechanics. This approach introduces the concept of a crack extension force which can be used to rank materials in some order of fracture resistance. The idea is to determine the largest crack that a material will tolerate without failure. Laboratory methods for characterizing the fracture toughness of many engineering materials are now available. While these test data are useful for providing some rough guidance in the choice of materials, it is not clear how they could be used in the design of a structure. The understanding of the relationship between laboratory tests and fracture design of structures is to say the least deficient. Fracture mechanics is presently at a standstill until the basic problems of scaling from laboratory models to full size structures and mixed mode crack propagation are resolved. The answers to these questions require some basic understanding of the theory and will not be found by testing more specimens. The current theory of fracture is inadequate for many reasons. First of all, it can only treat idealized problems where the applied load must be directed normal to the crack plane. Solution of Crack Problems D.A. Hills, P.A. Kelly, D.N. Dai, A.M. Korsunsky, 2013-04-17 This book is concerned with the numerical solution of crack problems. The techniques to be developed are particularly appropriate when cracks are relatively short and are growing in the neighbourhood of some stress raising feature causing a relatively steep stress gradient. It is therefore practicable to represent the geometry in an idealised way so

that a precise solution may be obtained This contrasts with say the finite element method in which the geometry is modelled exactly but the subsequent solution is approximate and computationally more taxing The family of techniques presented in this book based loosely on the pioneering work of Eshelby in the late 1950 s and developed by Erdogan Keer Mura and many others cited in the text present an attractive alternative The basic idea is to use the superposition of the stress field present in the unflawed body together with an unknown distribution of strain nuclei in this book the strain nucleus employed is the dislocation chosen so that the crack faces become traction free The solution used for the stress field for the nucleus is chosen so that other boundary conditions are satisfied The technique is therefore efficient and may be used to model the evolution of a developing crack in two or three dimensions Solution techniques are described in some detail and the book should be readily accessible to most engineers whilst preserving the rigour demanded by the researcher who wishes to develop the method itself *Applied Mechanics Reviews*, 1975 Numerical Fracture Mechanics M.H. Aliabadi, D.P. Rooke, 1991-07-31

The purpose of this book is to present describe and demonstrate the use of numerical methods in solving crack problems in fracture mechanics The text concentrates to a large extent on the application of the Boundary Element Method BEM to fracture mechanics although an up to date account of recent advances in other numerical methods such as the Finite Element Method is also presented The book is an integrated presentation of modern numerical fracture mechanics it contains a compilation of the work of many researchers as well as accounting for some of authors most recent work on the subject It is hoped that this book will bridge the gap that exists between specialist books on theoretical fracture mechanics on one hand and texts on numerical methods on the other Although most of the methods presented are the latest developments in the field of numerical fracture mechanics the authors have also included some simple techniques which are essential for understanding the physical principles that govern crack problems in general Different numerical techniques are described in detail and where possible simple examples are included as well as test results for more complicated problems The book consists of six chapters The first chapter initially describes the historical development of theoretical fracture mechanics before proceeding to present the basic concepts such as energy balance stress intensity factors residual strength and fatigue crack growth as well as briefly describing the importance of stress intensity factors in corrosion and residual stress cracking

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An Introduction To The Method Of Fundamental Solutions Alexander H-d Cheng, Ching-shyang Chen, Andreas Karageorghis, 2025-03-11 Over the past two decades the method of fundamental solutions MFS has attracted great attention and has been used extensively for the solution of scientific and engineering problems The MFS is a boundary meshless collocation method which has evolved from the boundary element method In it the approximate solution is expressed as a linear combination of fundamental solutions of the operator in the governing partial differential equation One of the main

attractions of the MFS is the simplicity with which it can be applied to the solution of boundary value problems in complex geometries in two and three dimensions The method is also known by many different names in the literature such as the charge simulation method the de singularization method the virtual boundary element method etc Despite its effectiveness the original version of the MFS is confined to solving boundary value problems governed by homogeneous partial differential equations To address this limitation we introduce various types of particular solutions to extend the method to solving general inhomogeneous boundary value problems employing the method of particular solutions This book consists of two parts Part I aims to provide theoretical support for beginners In the spirit of reproducible research and to facilitate the understanding of the method and its implementation several MATLAB codes have been included in Part II This book is highly recommended for use by post graduate researchers and graduate students in scientific computing and engineering

Fracture Mechanics Criteria and Applications E.E. Gdoutos, 2012-12-06 It is difficult to do justice to fracture mechanics in a textbook for the subject encompasses so many disciplines A general survey of the field would serve no purpose other than give a collection of references The present book by Professor E E Gdoutos is refreshing because it does not fall into the esoteric tradition of outlining equations and results Basic ideas and underlying principles are clearly explained as to how they are used in application The presentations are concise and each topic can be understood by advanced undergraduates in material science and continuum mechanics The book is highly recommended not only as a text in fracture mechanics but also as a reference to those interested in the general aspects of failure analysis In addition to providing an in depth review of the analytical methods for evaluating the fundamental quantities used in linear elastic fracture mechanics various criteria are discussed re O ecting their limitations and applications Par ticular emphases are given to predicting crack initiation subcritical growth and the onset of rapid fracture from a single criterion Those models in which it is assumed that the crack extends from tip to tip rely on the specific surface energy concept The differences in the global and energy states before and after crack extension were associated with the energy required to create a unit area of crack surface Applications were limited by the requirement of self similar crack growth

Structural Failure Analysis and Prediction Methods for Aerospace Vehicles and Structures Sook-Ying Ho, 2010 This book deals with structural failure induced by mechanical aerodynamic acoustic and aero thermal loads etc of modern aerospace vehicles in particular high speed aircraft solid propellant rocket systems and hypersonic flight vehicles where structural integrity failure prediction and service life assessment are particularly challenging due to the increasingly more demanding mission requirements and the use of non traditional materials such as non metallic composites in their construction Prediction of the complex loading environment seen in high speed operation and constitutive fracture models which can adequately describe the non linear behaviour exhibited by advanced alloys and composite materials are critical in analyzing the non linear structural response of modern aerospace vehicles and structures The state of the art of the different structural integrity assessment and prediction

methodologies including non destructive structural health monitoring techniques used for the structural design service life assessment and failure analysis of the different types of aerospace vehicles are presented The chapters are written by experts from aerospace defence research organizations and academia in the fields of solid mechanics and structural mechanics and dynamics of aircraft rocket and hypersonic systems The book will serve as a useful reference document containing specialist knowledge on appropriate prediction methodologies for a given circumstance and experimental data acquired from multi national collaborative programs

The Boundary Integral Equation Method in Axisymmetric Stress Analysis Problems Adib A. Bakr, 2013-03-12 The Boundary Integral Equation BIE or the Boundary Element Method is now well established as an efficient and accurate numerical technique for engineering problems This book presents the application of this technique to axisymmetric engineering problems where the geometry and applied loads are symmetrical about an axis of rotation Emphasis is placed on using isoparametric quadratic elements which exhibit excellent modelling capabilities Efficient numerical integration schemes are also presented in detail Unlike the Finite Element Method FEM the BIE adaptation to axisymmetric problems is not a straightforward modification of the two or three dimensional formulations Two approaches can be used either a purely axisymmetric approach based on assuming a ring of load or alternatively integrating the three dimensional fundamental solution of a point load around the axis of rotational symmetry Throughout this book both approaches are used and are shown to arrive at identical solutions The book starts with axisymmetric potential problems and extends the formulation to elasticity thermoelasticity centrifugal and fracture mechanics problems The accuracy of the formulation is demonstrated by solving several practical engineering problems and comparing the BIE solution to analytical or other numerical methods such as the FEM This book provides a foundation for further research into axisymmetric problems such as elastoplasticity contact time dependent and creep problems

Advanced Life Analysis Methods: Crack growth analysis methods for attachment lugs Thomas Richard Brussat, 1984 **Numerical Modeling in Micromechanics via Particle Methods - 2004** Y. Shimizu, R. Hart, Peter Cundall, 2004-09-15 The variety of applications of PFC has continued to increase in the ten years since the first release of these programs This volume contains a collection of fifty two papers selected for presentation at the 2nd PFC Symposium held 27-29 October 2004 in Kyoto Japan These contributions cover a wide range of engineering applications and theoretical

Weight Functions and Stress Intensity Factor Solutions Xue-Ren Wu, Janne Carlsson, 1991 Fracture mechanics is an indispensable tool in the design and safe operation of damage tolerant structures One of the essential elements in fracture mechanics based analysis is the stress intensity factor This book provides a powerful theoretical background to the weight function method in fracture mechanics and numerous stress intensity factors Part I gives a theoretical background and overview of the weight function method Part II provides further details of the weight functions for various geometries and a large number of stress intensity factor solutions Part II deals with the determination of crack opening displacements Dugdale model solutions and crack opening

areas **The Shock and Vibration Digest** ,1987 Reliability, Stress Analysis, and Failure Prevention Methods in Mechanical Design Wayne D. Milestone,1980 **Japanese Science and Technology, 1983-1984** United States. National Aeronautics and Space Administration. Scientific and Technical Information Branch,1985 *Scientific and Technical Aerospace Reports* ,1990 *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

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