

# **FRACTURE**

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**A Topical Encyclopedia  
of Current Knowledge**

**Edited by Genady P. Cherepanov**

# Fracture A Topical Encyclopedia Of Current Knowledge

**Rachel S Tattersall**



## **Fracture A Topical Encyclopedia Of Current Knowledge:**

**Fracture** Gennadii Petrovich Cherepanov,1998      Fracture Research in Retrospect H.P. Rossmanith,1997-01-01 This book describes the historical development of the engineering discipline of fracture mechanics from early times to the scientific treatment of the subject in the 20th century Most papers do not require a mathematical background to understand them

**Methods of Fracture Mechanics: Solid Matter Physics** G.P. Cherepanov,2013-03-09 Modern fracture mechanics considers phenomena at many levels macro and micro it is therefore inextricably linked to methods of theoretical and mathematical physics This book introduces these sophisticated methods in a straightforward manner The methods are applied to several important phenomena of solid state physics which impinge on fracture mechanics adhesion defect nucleation and growth dislocation emission sintering the electron beam effect and fractal cracks The book shows how the mathematical models for such processes may be set up and how the equations so formulated may be solved and interpreted The many open problems which are encountered will provide topics for MSc and PhD theses in fracture mechanics and in theoretical and experimental physics As a supplementary text the book can be used in graduate level courses on fracture mechanics solid matter physics and mechanics of solids or in a special course on the application of fracture mechanics methods in solid matter physics

Eight Non-Classical Problems of Fracture Mechanics Aleksander N. Guz,2021-08-08 This book presents an analysis of eight non classical problems of fracture and failure mechanics mainly obtained by research in the department of dynamics and stability of continuum of the S P Timoshenko Institute of Mechanics of the National Academy of Sciences of Ukraine NAS of Ukraine It focusses on the application of the 3D three dimensional theories of stability dynamics and statics of solid mechanics to the investigation of non classical problems of fracture and failure mechanics

**Continuum Mechanics through the Ages - From the Renaissance to the Twentieth Century** Gérard A. Maugin,2015-11-19 Mixing scientific historic and socio economic vision this unique book complements two previously published volumes on the history of continuum mechanics from this distinguished author In this volume Gérard A Maugin looks at the period from the renaissance to the twentieth century and he includes an appraisal of the ever enduring competition between molecular and continuum modelling views Chapters trace early works in hydraulics and fluid mechanics not covered in the other volumes and the author investigates experimental approaches essentially before the introduction of a true concept of stress tensor The treatment of such topics as the viscoelasticity of solids and plasticity fracture theory and the role of geometry as a cornerstone of the field are all explored Readers will find a kind of socio historical appraisal of the seminal contributions by our direct masters in the second half of the twentieth century The analysis of the teaching and research texts by Duhem Poincar and Hilbert on continuum mechanics is key these provide the most valuable documentary basis on which a revival of continuum mechanics and its formalization were offered in the late twentieth century Altogether the three volumes offer a generous conspectus of the developments of continuum mechanics between the sixteenth century

and the dawn of the twenty first century Mechanical engineers applied mathematicians and physicists alike will all be interested in this work which appeals to all curious scientists for whom continuum mechanics as a vividly evolving science still has its own mysteries

**Physical Aspects of Fracture** Elisabeth Bouchaud, Dominique Jeulin, Claude Prioul, Stéphane Roux, 2012-12-06 The main scope of this Cargese NATO Advanced Study Institute June 5 17 2000 was to bring together a number of international experts covering a large spectrum of the various Physical Aspects of Fracture As a matter of fact lecturers as well as participants were coming from various scientific communities mechanics physics materials science with the common objective of progressing towards a multi scale description of fracture This volume includes papers on most materials of practical interest from concrete to ceramics through metallic alloys glasses polymers and composite materials The classical fields of damage and fracture mechanisms are addressed critical and sub critical quasi static crack propagation stress corrosion fatigue fatigue corrosion as well as dynamic fracture Brittle and ductile fractures are considered and a balance has been carefully kept between experiments simulations and theoretical models and between the contributions of the various communities New topics in damage and fracture mechanics the effect of disorder and statistical aspects dynamic fracture friction and fracture of interfaces were also explored This large overview on the Physical Aspects of Fracture shows that the old barriers built between the different scales will soon fracture It is no more unrealistic to imagine that a crack initiated through a molecular dynamics description could be propagated at the grain level thanks to dislocation dynamics included in a crystal plasticity model itself implemented in a finite element code Linking what happens at the atomic scale to fracture of structures as large as a dam is the new emerging challenge

**Models and Phenomena in Fracture Mechanics** Leonid I. Slepyan, 2012-11-07 Modern concepts of fracture mechanics are presented consecutively Homogeneous and structured models where microstructure plays an essential role are considered for fracture and phase transition Firstly one dimensional models are comprehensively studied allowing one to retrace the main phenomena without technical difficulties More realistic models are then used as linear and nonlinear elastic mediums such as elastic plates with crack closure viscoelastic discrete lattices chains and cohesive zone models Also considered are crack origination equilibrium slow and fast growth Sub and super critical crack speed regimes and transition from one regime to another are studied Fourier transform and related topics including a version of the Wiener Hopf technique dealing with originals are presented as well as required topics from wave theory This book is targeted at researchers of materials and structures also at lecturers and advanced students

*IUTAM Symposium on Non-Linear Singularities in Deformation and Flow* D. Durban, J.R. Pearson, 2012-12-06 The IUTAM Symposium on Non Linear Singularities in Deformation and Flow took place from March 17 to 21 1997 at the Technion in Haifa Israel with 70 participants from 12 countries The leitmotif of this Symposium brought together scientists working on singularity dominated local fields in various branches of continuum mechanics covering traditional solid and liquid behaviour as well as that of more complex non linear materials non linearities arise either from

the constitutive equations for the material or from the presence of interfaces or both The scientific committee invited speakers who presented 34 papers in 12 sessions Topics covered in the lectures included near tip fields of cracks notches and wedges flow around comers wedges and cones interfacial phenomena moving contact lines in multiphase systems cusps in fluid interfaces and shocks and localization There was a general consensus among the participants that singularities induced by non linearities provide a challenging and currently important area of research in mechanics engineering and applied mathematics Presentation and discussions during the symposium initiated further studies of problems in these interesting areas This volume contains 30 full length papers submitted by the lecturers after the symposium and reviewed to the standards of international scientific periodicals It is our pleasure to acknowledge the efficient and tireless help of Mrs Alice Goodman and Mr Gideon Wachsman of the Faculty of Aerospace Engineering at the Technion David Durban Anthony Pearson Haifa Cambridge April 1998 IX International Scientific Committee C Atkinson UK G I Barenblatt USA H c

*Size-Scale Effects in the Failure Mechanisms of Materials and Structures* Alberto Carpinteri, 2002-11-01 Invited international contributions to this exciting new research field are included in this volume It contains the specially selected papers from 45 key specialists given at the Symposium held under the auspices of the prestigious International Union of Theoretical and Applied Mechanics at Turin in October 1994 Notch Effects in Fatigue and Fracture G. Pluinage, Marenglen Gjonaj, 2012-12-06 As Directors of this NATO Workshop we welcome this opportunity to record formally our thanks to the NATO Scientific Affairs Division for making our meeting possible through generous financial support and encouragement This meeting has two purposes the first obvious one because we have collected scientists from East far East and west to discuss new development in the field of fracture mechanics the notch fracture mechanics The second is less obvious but perhaps in longer term more important that is the building of bridges between scientists in the frame of a network called Without Walls Institute on Notch Effects in Fatigue and Fracture Physical perception of notch effects is not so easy to understand as the presence of a geometrical discontinuity as a worst effect than the simple reduction of cross section Notch effects in fatigue and fracture is characterised by the following fundamental fact it is not the maximum local stress or stress which governs the phenomena of fatigue and fracture The physic shows that a process volume is needed probably to store the necessary energy for starting and propagating the phenomenon This is a rupture of the traditional strength of material school which always give the prior importance of the local maximum stress This concept of process volume was strongly affirmed during this workshop **Fracture of Materials Under Compression Along Cracks** Aleksander N. Guz, Viacheslav L. Bogdanov, Vladimir M. Nazarenko, 2020-07-25 This book addresses the problems of fracture mechanics of materials with cracks under the loading directed along the cracks It considers two non classical fracture mechanisms namely the fracture of bodies compressed along cracks and the fracture of materials with initial residual stresses acting in parallel to the surfaces of cracks location and presents new approaches also including combined one developed in the framework of

three dimensional linearized mechanics of deformable bodies It then discusses the results of studies on two and three dimensional problems for various configurations of crack locations in isotropic and anisotropic materials and based on these results critically evaluates the accuracy and applicability limits of the beam approximation approach which is widely used to study various problems of the fracture of bodies under compression along parallel cracks

**Selected Problems of Solid Mechanics and Solving Methods** Holm Altenbach, Viacheslav Bogdanov, Alexander Ya. Grigorenko, Roman M. Kushnir, Vladimir M. Nazarenko, Victor A. Eremeyev, 2024-06-04 This book examines new approaches for the estimation of errors in approximate theories Numerical and analytical methods in mechanics often require the establishment of a set of basic equations and various approaches exist to create approximate theories from them The problem is that nobody knows the boundaries of the estimation of errors in approximate theories This book presents new approaches to overcome this problem and to provide the reader with suitable methods for the relevant field including a representation of different scientific schools and different countries These new methods are helping to solve many problems not only in analytical Mechanics but also in Physics Mathematics and Civil Engineering

*Configurational Mechanics of Materials* Reinhold Kienzler, Gerard A. Maugin, 2014-05-04 In several applications it is well recognized that all materials on some scale cannot be regarded as perfect continua They rather contain a variety of numerous defects such as micro cracks inclusions vacancies voids dislocations etc To characterize such defects the notion of force acting on a defect in the material needs to be introduced which leads to a whole engineering science of Configurational Mechanics of Materials The lecture notes cover the numerous elements of configurational mechanics including mathematical foundations linear and nonlinear elasticity and continuum mechanics coupled fields fracture mechanics as well as strength of materials

**Configurational Forces** Gerard A. Maugin, 2016-04-19 Exploring recent developments in continuum mechanics Configurational Forces Thermomechanics Physics Mathematics and Numerics presents the general framework for configurational forces It also covers a range of applications in engineering and condensed matter physics The author presents the fundamentals of accepted standard continuum mechanics before introducing Eshelby material stress field theory variational formulations Noether's theorem and the resulting conservation laws In the chapter on complex continua he compares the classical perspective of B D Coleman and W Noll with the viewpoint linked to abstract field theory He then describes the important notion of local structural rearrangement and its relationship to Eshelby stress After looking at the relevance of Eshelby stress in the thermodynamic description of singular interfaces the text focuses on fracture problems microstructured media systems with mass exchanges and electromagnetic deformable media The concluding chapters discuss the exploitation of the canonical conservation law of momentum in nonlinear wave propagation the application of canonical momentum conservation law and material force in numerical schemes and similarities of fluid mechanics and aerodynamics Written by a long time researcher in mechanical engineering this book provides a detailed treatment of the theory of configurational forces one of the latest and most fruitful

advances in macroscopic field theories Through many applications it shows the depth and efficiency of this theory

*Proceedings of Crack Paths (CP 2009), Vicenza, Italy 2009* ,     **Applied mechanics reviews** ,1948     Advances in Applied Mechanics ,2014-11-21 Advances in Applied Mechanics draws together recent significant advances in various topics in applied mechanics Published since 1948 Advances in Applied Mechanics aims to provide authoritative review articles on topics in the mechanical sciences primarily of interest to scientists and engineers working in the various branches of mechanics but also of interest to the many who use the results of investigations in mechanics in various application areas such as aerospace chemical civil environmental mechanical and nuclear engineering Covers all fields of the mechanical sciences Highlights classical and modern areas of mechanics that are ready for review Provides comprehensive coverage of the field in question     Invariant Integrals in Physics Genady P. Cherepanov,2019-10-24 In this book all physical laws are derived from a small number of invariant integrals which express the conservation of energy mass or momentum This new approach allows us to unify the laws of theoretical physics to simplify their derivation and to discover some novel or more universal laws Newton s Law of gravity is generalized to take into account cosmic forces of repulsion Archimedes principle of buoyancy is modified for account of the surface tension and Coulomb s Laws for rolling friction and for the interaction of electric charges are substantially repaired and generalized For postgraduate students lecturers and researchers     Lattice Models of Propagating Defects Olga Kreese,2002     **Applied Impact Mechanics** C. Lakshmana Rao,V. Narayanamurthy,K. R. Y. Simha,2016-06-13 This book is intended to help the reader understand impact phenomena as a focused application of diverse topics such as rigid body dynamics structural dynamics contact and continuum mechanics shock and vibration wave propagation and material modelling It emphasizes the need for a proper assessment of sophisticated experimental computational tools promoted widely in contemporary design A unique feature of the book is its presentation of several examples and exercises to aid further understanding of the physics and mathematics of impact process from first principles in a way that is simple to follow

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