

# Fault and Joint Development in Brittle and Semi-brittle Rock

Price, N.J.

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# Fault And Joint Development In Brittle And Semi Brittle Rock

**JA Banks**



## **Fault And Joint Development In Brittle And Semi Brittle Rock:**

*Fault and Joint Development in Brittle and Semi-Brittle Rock* Neville J. Price, 2015-05-11 *Fault and Joint Development In Brittle and Semi Brittle Rock* details the theoretical concepts about fault and joint development in rock when they behave as brittle or semi brittle material The title first covers the concepts and criteria of brittle failure along with the limits of temperature and pressure below which rocks may behave in a brittle or semi brittle manner Next the selection details the application of the concepts of brittle failure and elastic theory to the problems of faulting and jointing The book will be of great use to undergraduate students of geology and its related degrees The text will also serve professionals in geological disciplines as a reference

*Fault and Joint Development* Neville J. Price, 2016-07-04 *Fault and Joint Development in Brittle and Semi brittle Rock* deals with theories of fault and joint development in rock when they behave as brittle or semi brittle material The book contains three chapters the first of which deals with some of the concepts and criteria of brittle failure along with an attempt to define limits of temperature and pressure below which rocks may behave in a brittle or semi brittle manner The second and third chapters discuss the application of these concepts of brittle failure and elastic theory to the problems of faulting and jointing respectively It is emphasized that since this book deals with theoretical aspects of structural geology it is concerned with generalizations and approximations It must be left to the reader to decide how closely these theories approximate to any particular field data This book is primarily intended for senior undergraduates and postgraduates in geology interested in the interpretation of geological structures It may also be of interest to some mining and civil engineers

**Fault and Joint Development in Brittle and Semi-brittle Rock** Neville J.. Price, 1966 **Fault and Joint Development in Brittle and Semi-brittle Rocks** , 1975 Fracture Mechanics of Rock Barry Kean

Atkinson, 2015-05-11 The analysis of crack problems through fracture mechanics has been applied to the study of materials such as glass metals and ceramics because relatively simple fracture criteria describe the failure of these materials The increased attention paid to experimental rock fracture mechanics has led to major contributions to the solving of geophysical problems The text presents a concise treatment of the physics and mathematics of a representative selection of problems from areas such as earthquake mechanics and prediction hydraulic fracturing hot dry rock geothermal energy fault mechanics and dynamic fragmentation

Engineering Behaviour of Rocks I.W. Farmer, 2012-12-06 The first edition of this book was received more kindly than it deserved by some and with some scepticism by others It set out to present a simple concise and reasonably comprehensive introduction to some of the theoretical and empirical criteria which may be used to define rock as a structural material The objectives reinforced by the change in title remain the same but the approach has been changed considerably and only one or two sections have been retained from the first edition The particular aim in this edition is to provide a description of the mechanical behaviour of rocks based firmly upon experimental data which can be used to explain how rocks deform fracture and yield and to show how this knowledge can be used in design The major

emphasis is on the behaviour of rocks as materials although in the later chapters the behaviour of discontinuities in rocks and the way in of rock masses is considered which this can affect the behaviour If this edition is an improvement on the first edition it reflects the debt lowe to numerous people who have attempted to explain the rudiments of the subject to me I should like to thank Peter Attewell and Roy Scott in particular I should also like to thank Tony Price and Mike Gilbert whose work at Newcastle I have used shamelessly

*Encyclopedia of Geology*, 2020-12-16 Encyclopedia of Geology Second Edition presents in six volumes state of the art reviews on the various aspects of geologic research all of which have moved on considerably since the writing of the first edition New areas of discussion include extinctions origins of life plate tectonics and its influence on faunal provinces new types of mineral and hydrocarbon deposits new methods of dating rocks and geological processes Users will find this to be a fundamental resource for teachers and students of geology as well as researchers and non geology professionals seeking up to date reviews of geologic research Provides a comprehensive and accessible one stop shop for information on the subject of geology explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

*The Initiation, Propagation, and Arrest of Joints and Other Fractures* John W. Cosgrove, Terry Engelder, 2004 This volume is a state of the art look at our understanding of joint development in the crust Answers are provided for such questions as the mechanisms by which joints are initiated the factors controlling the path they follow during the propagation process and the processes responsible for the arrest of joints Many of the answers to these questions can be inferred from the geometry of joint surface morphology and joint patterns Joints are a record of the orientation of stress at the time of propagation and as such they are also useful records of ancient stress fields regional and local Because outcrop and subsurface views of joints are limited statistical techniques are required to characterize joints and joint sets Finally joints are subject to post propagation stresses that further localize deformation and are the focus for the development of new structures

*Carbonate Reservoirs* Clyde H. Moore, William J. Wade, 2013-08-12 Carbonate reservoirs are prone to natural fracturing Fractures can act as enhanced permeability pathways which may increase decrease or complicate reservoir production and development healed fractures contribute to reservoir compartmentalization A primary focus is placed upon the predictability of fracture set patterns and orientations which vary according to carbonate lithofacies and the stress field s under which different types of fractures form Extension fractures can form at the surface or at reservoir depths Certain types of extension fracture sets e g syndepositional regional and to a lesser extent karst related fracture sets exhibit predictable patterns and orientations with respect to the stress field under which they originated Surface outcrops commonly exhibit multiple fracture sets these are most frequently related to relaxation of compaction and or thermal cooling Such fracture sets are considered unlikely to resemble fracture

sets in nearby reservoirs at depth therefore the use of surface fracture patterns as analogs for same formation reservoirs without comparative analysis of burial stress histories is risky Fault related fractures have very high permeability potentials when newly formed but their resulting role as fluid conduits typically leads to rapid healing and therefore a higher likelihood of causing reservoir compartmentalization These fractures typically cut across multiple beds Fold related fracture patterns are complex typically consisting of both extension and conjugate shear pair fractures and show variable orientations in space and or over time However they tend to follow the geometries of individual beds and are often confined to single beds rather than aligning according to overall structural axes Ekofisk Field a naturally fractured North Sea chalk reservoir is presented as an illustrative case of fold related fracture abundance and effectiveness in enhancing fieldwide permeability parameters without the drawback of creating major production problems during waterflooding *Tectonofractography* Dov

Bahat,2012-12-06 he who repeats a thing in the name of him who said it brings deliverance to the world Mishnah Sayings of the Fathers 6 6 Main Objectives The present book intends to fulfill a number of purposes which are arranged under the following scheme 1 A topical review of main subjects in fractography that branch of science which analyses fracture surface morphology and related features and their causes and mechanisms in technological materials Among the materials that bear significant affinities to rock are in organic glass ceramics metals and polymer glass 2 A historical review of the main studies published to date on rock fractography In both these fields of review one is confronted by the similarities between small scale micro metre and large scale tens of metres fracture surface morphologies The similarities on the one hand and the differences on the other must surely promote further development of fractographical approaches in structural geology where extrapolation from microfractography to large scale fractography is virtually a directive As geologists become more familiar with the fractography of rocks they undoubtedly will become aware of the great power of this descriptive discipline as a tool in both qualitative and quantitative analysis Rock fractography must yet be routinely applied in the structural analysis of rock formations in which fracture morphology is sufficiently prominent or extensive **Strength And Weathering Of Rock As**

**Boundary Layer Problems** Christine Butenuth,2001-06-12 This book is addressed mainly to younger geoscientists and students of geologically related subjects It discusses 1 the concepts definitions and experience of strength particularly rock strength with application of experimental techniques 2 the physical chemical aspects of the strength of pure phases 3 strengthening of grain packings by intermolecular forces 4 the behaviour of Buntersandstone samples underwater and lessons for understanding weathering processes 5 deductions concerning the distribution of substances and forces in Buntersandstone samples from observing the response of samples underwater The urgency of environmental studies has been the main driving force for this book The discussion of single problems is wide ranging particularly for chemical and physical topics so as to enhance the reader's understanding The book is more a research account than a textbook Thus no completed well defined subject area is presented on the contrary many questions are raised which should form the basis for

future research The book has been written to stimulate lively debate **Stress and Strain** W.D. Means, 2012-12-06 This is an elementary book on stress and strain theory for geologists It is written in the belief that a sound introduction to the mechanics of continuous bodies is essential for students of structural geology and tectonics just as a sound introduction to physical chemistry is necessary for students of petrology This view is shared by most specialists in structural geology but it is not yet reflected in typical geology curricula Undergraduates are still traditionally given just a few lectures on mechanical fundamentals and there is rarely any systematic lecturing on this subject at the graduate level The result is that many students interested in structure and tectonics finish their formal training without being able to understand or contribute to modern literature on rocks as mechanical systems The long term remedy for this is to introduce courses in continuum mechanics and material behavior as routine parts of the undergraduate curriculum These subjects are difficult but no more so than optical mineralogy or thermodynamics or other rigorous subjects customarily studied by undergraduates The short term remedy is to provide books suitable for independent study by those students and working geologists alike who wish to improve their understanding of mechanical topics relevant to geology This book is intended to meet the short term need with respect to stress and strain two elementary yet challenging concepts of continuum mechanics **Principles of**

**Engineering Geology** P.B. Attewell, I.W. Farmer, 2012-12-06 Engineering geology is one of those terms that invite definition The American Geological Institute for example has expanded the term to mean the application of the geological sciences to engineering practice for the purpose of assuring that the geological factors affecting the location design construction operation and maintenance of engineering works are recognized and adequately provided for It has also been defined by W R Judd in the McGraw Hill Encyclopaedia of Science and Technology as the application of education and experience in geology and other geosciences to solve geological problems posed by civil engineering structures Judd goes on to specify those branches of the geological or geosciences as surface or surficial geology structural fabric geology geohydrology geophysics soil and rock mechanics Soil mechanics is firmly included as a geological science in spite of the perhaps rather unfortunate trends over the years now happily being reversed towards purely mechanistic analyses which may well provide acceptable solutions for only the simplest geology Many subjects evolve through their subject areas from an interdisciplinary background and it is just such instances that pose the greatest difficulties of definition Since the form of educational development experienced by the practitioners of the subject ultimately bears quite strongly upon the corporate concept of the term engineering geology it is useful briefly to consider that educational background **Principles of Geodynamics** A.E. Scheidegger, 2012-12-06 Geodynamics is commonly thought to be one of the subjects which provide the basis for understanding the origin of the visible surface features of the Earth the latter are usually assumed as having been built up by geodynamic forces originating inside the Earth endogenetic processes and then as having been degraded by geomorphological agents originating in the atmosphere and ocean exogenetic agents The modern view holds that the

sequence of events is not as neat as it was once thought to be and that in effect both geodynamic and geomorphological processes act simultaneously Principle of Antagonism however the division of theoretical geology into the principles of geodynamics and those of theoretical geomorphology seems to be useful for didactic purposes It has therefore been maintained in the present writer s works This present treatise on geodynamics is the first part of the author s treatment of theoretical geology the treatise on Theoretical Geomorphology also published by the Springer Verlag representing the second The present edition is third one of the book Although the headings of the chapters and sections are much the same as in the previous editions it will be found that most of the material is in fact new      Proceedings Enrico P. Mercanti,Margeret A. Becker,Stanley C. Freden,1973      **Symposium on Significant Results Obtained from the Earth Resources Technology Satellite** ,1973      *Technical presentations, Section A-B. 2v.-v.2.Summary of results.-v.3.Discipline summary reports* Stanley C. Freden,Enrico P. Mercanti,Margeret A. Becker,1973      *The Proceedings of a Symposium Held by Goddard Space Flight Center at New Carrollton, Maryland on March 5-9, 1973: Technical presentations, Section A-B. 2 v* Stanley C. Freden,Enrico P. Mercanti,Margaret A. Becker,1973      **Engineering Properties of Soils and Rocks** F. G. Bell,2013-10-22 Engineering Properties of Soils and Rocks Third Edition serves as a guide to the engineering properties and behavior of soils and rocks The text also complements other texts on rock and soil mechanics The book covers topics such as the properties and classification of soils such as tills and other kinds of soils related to cold climates tropical soils and organic soils such as peat The text also includes the engineering behavior and properties classification and description discontinuities and weathering of rocks and rock masses The monograph is recommended for engineers who would like to know about the properties of soils and rocks and the application of their study in the field of engineering      *Mechanics of Jointed and Faulted Rock* H.P. Rossmanith,2018-04-27 Topics covered in this text include geology and structural geology mechanics dynamics of jointed and faulted rock physical modelling and testing constitutive modelling seismicity and tectonics instrumentation hydraulics and applications

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