

Folding And Fracturing Of Rocks By Ramsay

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folding and fracturing of rocks was first published in 1967 it was one of the first major publications aimed at developing for geologists the basic theory of stress and strain in mathematical terms and explaining how this theory could be used to solve practical problems in structural geology and tectonics although out of print for many years it is still

one of the most frequently cited and quoted texts in modern research publications in structural geology

this special publication is a celebration of research into the folding and fracturing of rocks to mark the 50th anniversary of the publication of the seminal textbook by j g ramsay folding and fracturing of rocks summarised the key structural geology concepts of the time through his numerical and geometric focus john pioneered and provided solutions to understanding the processes leading to the folding and fracturing of rocks his strong belief that numerical and geometric solutions to understanding crustal processes should be tested against field examples added weight and clarity to his work the basic ideas and solutions presented in the text are as relevant now as they were 50 years ago and this collection of papers celebrates john s contribution to structural geology the papers explore the lasting impact of john and his work they present case studies and a modern understanding of the process documented in the folding and fracturing of rocks

tensile fracturing in rocks presents field observations on fracturing of sedimentary rocks and granite outcrops from various provinces in three continents it also combines results of recent experiments conducted at different laboratories around the world with current theories on fracturing in tectonic faults this book limits itself to faults that are associated with joint sets produced by definable causes and occasionally to cases where interaction between the two types of fracture faults and joints is not clear the book s subject matter is divided over six chapters which are briefly described below chapter 1 summarizes current key concepts in fracture physics it starts with a presentation of the elastic theory of fracture and concentrates on the results of linear elastic fracture mechanics the chapter touches also upon other fracture properties e g crack nucleation dynamic fracturing and slow fracturing processes nucleation is treated by statistical mechanics methods incorporating modern approaches of thermal and fiber bundle processes the analyses of dynamic fracturing and slow fracturing focus on the differences as compared to the linear elastic approach the controversy in interpreting experimental dynamic results is highlighted as are the surface morphology patterns that emerge in fracturing and the non-griffith crack extension criterion in very slow fracturing processes

this book presents a new fracturing technique that should be considered as a potential alternative or a companion technique to hydraulic fracturing of tight gas reservoirs and low permeability rock masses as opposed to hydraulic fracturing which generates a few numbers of large cracks electrohydraulic fracturing induces diffuse micro cracking and fragmentation of rocks laboratory tests demonstrate that increases of permeability by two orders of magnitude can be reached without major cracking in tested specimens this book discusses the principles of this new technique reports experiments which have been developed in order to prove the concept and finally describes the

numerical model from which the potentialities of this technique in representative reservoir conditions can be assessed

fracture mechanics of rock

hydrology is a topical and growing subject as the earth's water resources become scarcer and more vulnerable although more than half the surface area of continents is covered with hard fractured rocks there has until now been no single book available dealing specifically with fractured rock hydrogeology this book deals comprehensively with the fundamental principles for understanding these rocks as well as with exploration techniques and assessment it also provides in depth discussion of structural mapping remote sensing geophysical exploration gis field hydraulic testing groundwater quality and contamination geothermal reservoirs and resources assessment and management hydrogeological aspects of various lithology groups including crystalline rocks volcanic rocks carbonate rocks and clastic formations are dealt with separately using and discussing examples from all over the world applied hydrogeology of fractured rocks will be an invaluable reference source for postgraduate students researchers exploration scientists and engineers engaged in the field of groundwater development in fractured rock areas

the hydrogeologic environment of fractured rocks represents vital natural systems examples of which occur on every continent this book discusses key issues methodologies and techniques in the hydrogeology of fractured rocks summarizing recent progress and anticipating the outcome of future investigations forty four revised and updated papers w

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

rock fractures control many of earth's dynamic processes including plate boundary development tectonic earthquakes volcanic eruptions and fluid transport in the crust an understanding of rock fractures is also essential for effective exploitation of natural resources such as ground water geothermal water and petroleum this book combines

results from fracture mechanics materials science rock mechanics structural geology hydrogeology and fluid mechanics to explore and explain fracture processes and fluid transport in the crust basic concepts are developed from first principles and illustrated with worked examples linking models of geological processes to real field observations and measurements many additional examples and exercises are provided online allowing readers to practise formulating and quantitative testing of models rock fractures in geological processes is designed for courses at the advanced undergraduate and graduate level but also forms a vital resource for researchers and industry professionals concerned with fractures and fluid transport in the earth's crust

this book presents the coupled thermo hydro mechanical chemical thmc processes in fractured rocks at varying scales from single fractures to fracture networks it also discussed the implication and potential application of the advanced understanding of coupled thmc processes in fractured rocks for geotechnical and geo energy engineering

this book is the second edition of the well known textbook modelling rock fracturing processes the new and extended edition provides the theoretical background of rock fracture mechanics used for modelling of 2 d and 3 d geomechanics problems and processes fundamentals of rock fracture mechanics integrated with experimental studies of rock fracturing processes are highlighted the computer programs fracod 2d and 3d are used to analyse fracture initiation and propagation for the three fracture modes mode i ii and iii coupled fracture modelling with other continuous and distinct element codes including flac pfc rfpa tough are also described a series of applications of fracture modelling with importance for modern society is presented and discussed by distinguished rock fracture modelling experts

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