

CHARLES JAEGER

Rock mechanics and engineering



SECOND EDITION

Rock Mechanics And Engineering Jaeger

Arturo Cuomo



Rock Mechanics And Engineering Jaeger:

Rock Mechanics and Engineering C. Jaeger, 1979-06-28 In this second enlarged edition the author continues to emphasise aspects of rock mechanics Firm in his belief that there is no better way to study the subject than by the detailed analysis of case histories Dr Jaeger has incorporated a number of new ones **Fundamentals of Rock Mechanics** John Conrad Jaeger, Neville G. W. Cook, Robert Zimmerman, 2007-04-30 Widely regarded as the most authoritative and comprehensive book in its field the fourth edition of Fundamentals of Rock Mechanics includes new and substantially updated chapters to this highly praised text Extensively updated throughout this new edition contains substantially expanded chapters on poroelasticity wave propagation and subsurface stresses Features entirely new chapters on rock fractures and micromechanical models of rock behaviour Discusses fundamental concepts such as stress and strain Offers a thorough introduction to the subject before expertly delving into a fundamental self contained discussion of specific topics Unavailable for many years now back by popular demand An Instructor manual CD ROM for this title is available Please contact our Higher Education team at HigherEducation wiley com for more information Reviews With this attention to detail and rigorous adherence to clarity and exactness in description this edition will consolidate the standing achieved by the earlier editions as a most authoritative and comprehensive book in its field It will continue to serve as a leading reference work for geoscientists interested in structural geology tectonics and petrophysics as well as for civil mining and petroleum engineers Petroleum Geoscience I consider this book to be an invaluable reference for studying and understanding the fundamental science at the base of rock mechanics I believe this to be a must have textbook and I strongly recommend it to anyone student or professional interested in the subject Rock Mechanics and Rock Engineering An excellent book very well presented and is a must for the shelves of serious engineers and scientists active or interested in the fields of rock mechanics and rock engineering Highly recommended South African Geographical Journal 2008 *Rock Mechanics and Engineering* C. Jaeger, 1972 **Introduction to Rock Mechanics** Richard E. Goodman, 1991-01-16 Introduces a new approach to rock mechanics called block theory which formalizes procedures for selecting proper shapes and orientations for excavations in hard jointed rock Applies block theory to rock slopes and underground excavations and covers the Q theory of rock classification the empirical criterion of joint shear strength rock bolting properties of weak rocks statistical frequency of jointing an empirical criterion of rock strength and design of underground supports Contains many new problems with worked out solutions **Engineering in Rocks for Slopes, Foundations and Tunnels** T. Ramamurthy, 2010-08 With the ever increasing developmental activities as diverse as the construction of dams roads tunnels underground powerhouses and storage facilities petroleum exploration and nuclear repositories a more comprehensive and updated understanding of rock mass is essential for civil engineers engineering geologists geophysicists and petroleum and mining engineers Though some contents of this vast subject are included in undergraduate curriculum there are full fledged courses on Rock Mechanics

Rock Engineering in postgraduate programmes in civil engineering and mining engineering Much of the material presented in this book is also taught to geology and geophysics students In addition the book is suitable for short courses conducted for teachers practising engineers and engineering geologists This book with contributions from a number of authors with expertise and vast experience in various areas of rock engineering gives an in depth analysis of the multidimensional aspects of the subject The text covers a wide range of topics related to engineering behaviour of rocks and rock masses their classifications interpretation of geological mapping of joints through stereographic projection in situ stress measurements laboratory and field tests stability of rock slopes foundations of structures including dams and support systems for underground excavations The Second Edition has been enriched with new topics such as minimum overburden on pressure tunnels pressure around vertical cylindrical shaft thickness of steel lining and penetration rate from joint factor What distinguishes the text is the application of numerical methods to solve various problems by discrete element and equivalent material concepts interpretations of geomechanics modelling test data excavation methods ground improving methods and use of roadheaders and TBMs The book provides an excellent understanding of how to solve problems in rock engineering and should immensely benefit students teachers professionals and designers alike

An Outline of Soil and Rock Mechanics Pierre Habib, 1983-07-21 **A Geology for Engineers** F.G.H. Blyth, Michael de Freitas, 2017-12-21 No engineering structure can be built on the ground or within it without the influence of geology being experienced by the engineer Yet geology is an ancillary subject to students of engineering and it is therefore essential that their training is supported by a concise reliable and usable text on geology and its relationship to engineering In this book all the fundamental aspects of geology are described and explained but within the limits thought suitable for engineers It describes the structure of the earth and the operation of its internal processes together with the geological processes that shape the earth and produce its rocks and soils It also details the commonly occurring types of rock and soil and many types of geological structure and geological maps Care has been taken to focus on the relationship between geology and geomechanics so emphasis has been placed on the geological processes that bear directly upon the composition structure and mechanics of soil and rocks and on the movement of groundwater The descriptions of geological processes and their products are used as the basis for explaining why it is important to investigate the ground and to show how the investigations may be conducted at ground level and underground Specific instruction is provided on the relationship between geology and many common activities undertaken when engineering in rock and soil

Mohr Circles, Stress Paths and Geotechnics Richard H.G. Parry, 2004-08-02 The second edition of this well established book has been comprehensively updated in line with recent developments After presenting the fundamentals of stress and strain and their graphical representation the book includes chapters on failure states in soils and rocks observed and elastic paths and the use of discontinuities New sections include shear bands and small strain behaviour as well as the use of elastic shear modular stress calculations and

discontinuities in plasticity calculations Expanded coverage is also given to dilatancy of soils and roughness of rock joints

Geotechnical Slope Analysis Robin Chowdhury, Phil Flentje, Gautam Bhattacharya, 2009-11-18 Freshly updated and extended version of Slope Analysis Chowdhury Elsevier 1978 This reference book gives a complete overview of the developments in slope engineering in the last 30 years Its multi disciplinary critical approach and the chapters devoted to seismic effects and probabilistic approaches and reliability analyses reflect the distinctive style of the original Subjects discussed are the understanding of slope performance mechanisms of instability requirements for modeling and analysis and new techniques for observation and modeling Special attention is paid to the relation with the increasing frequency and consequences of natural and man made hazards Strategies and methods for assessing landslide susceptibility hazard and risk are also explored Moreover the relevance of geotechnical analysis of slopes in the context of climate change scenarios is discussed All theory is supported by numerous examples A wonderful book on Slope Stability recommended as a reference book to those who are associated with the geotechnical engineering profession undergraduates post graduates and consulting engineers Prof Devendra Narain Singh Indian Inst of Technology Mumbai India I have yet to see a book that excels the range and depth of Geotechnical Slope Analysis I have failed to find a topic which is not covered and that makes the book almost a single window outlet for the whole range of readership from students to experts and from theoreticians to practicing engineers Prof R K Bhandari New Delhi India

Slope Analysis R Chowdhury, 2012-12-02 Slope Analysis summarizes the fundamental principles of slope analysis It explores not only the similarities but also the differences in rock slopes and soil slopes and it presents alternative methods of analysis new concepts and new approaches to analysis The book introduces both natural and man made slopes the nature of soils and rocks geomorphology geology and the aims of slope analysis These topics are followed by chapters about stress and strain shear strength of rock and soils and progressive failure of slopes This book also presents limit equilibrium methods I and II which are the planar failure surfaces and slip surfaces of arbitrary shape respectively It also includes stress analysis and slope stability natural slope analysis and a brief review on plasticity and shear band analysis Before presenting its conclusions the book discusses special aspects of slope analysis such as earthquake analysis pseudo static analysis dynamic analysis and anisotropy in addition to Newmark's approach

Stability Analysis and Modelling of Underground Excavations in Fractured Rocks Jian Zhao, Weishen Zhu, 2003-12-18 Provides practical solutions to the challenge of modeling and analyzing rock masses Consolidates a wealth of previously published technical papers on the subject and introduces previously unseen material This authoritative title is a key reference for any Geo engineer Rock masses differ considerably from man made materials and their properties can vary with location direction and time As a result there is a critical need to capture these variations via modeling and analysis Zhu and Zhao provide an expert introduction to the techniques and analytical methods needed for studying underground excavations in fractured rock masses The book brings together previously published and new material to provide a

comprehensive and up to date reference Provides practical solutions to the challenge of modeling and analyzing rock masses Consolidates a wealth of previously published technical papers on the subject and introduces previously unseen material

Book catalog of the Library and Information Services Division Environmental Science Information Center. Library and Information Services Division,1977 *Engineering Rock Mechanics* John P Harrison,John A Hudson,2000 *Engineering Rock Mechanics Part II Illustrative Worked Examples* can be used as an independent book or alternatively it complements an earlier publication called *Engineering Rock Mechanics An Introduction to the Principles* by the same authors It contains illustrative worked examples of engineering rock mechanics in action as the subject applies to civil mining petroleum and environmental engineering The book covers the necessary understanding and the key techniques supporting the rock engineering design of structural foundations dams rock slopes wellbores tunnels caverns hydroelectric schemes and mines There is a question and worked answer presentation with the question and answer sets collated into twenty chapters which match the subject matter of the first book **Experimental Rock Deformation - The Brittle Field** M.S.

Paterson,Teng-fong Wong,2005-04-20 The primary aim of this monograph is to present the current knowledge of brittle properties of rocks as determined in laboratory experiments The principal aspects of brittle behavior are described with special attention to the fundamental physical aspects Thus the book provides a useful introduction to the basics of rock properties for engineering and earth science applications Furthermore it serves as a guide for graduate students and non specialists by presenting the relevant background material and where it can be found For the new edition a further chapter has been added and almost half of the chapters have been extensively revised and the others updated **In Situ Tests for the Determination of Rock Mass Shear Strength** Timothy W. Zeigler,1972 Rock shear strength is often determined from in situ tests Many cases have been reported in the literature describing in situ shear test procedures and test results The purpose of this report is to summarize this information for guidance in planning and evaluating such tests The types of tests discussed are direct shear test Triaxial or multiaxial test torsion shear test and pull out test The direct shear test is most widely used and some 48 case histories of such tests are summarized in Appendixes A through E The main advantage of the direct shear test is the ability to measure the shear resistance in any desired direction along potentially critical discontinuities The test is also popular due to its adaptability to field conditions tests can be conducted in trenches adits tunnels and even calyx drill holes Author *Book Catalog of the Library and Information Services Division: Shelf List*

catalog Environmental Science Information Center. Library and Information Services Division,1977 **Fundamentals of Rock Mechanics [by] J.C. Jaeger [and] N.G.W. Cook** John Conrad Jaeger,1969 *Rock Mechanics: Achievements and Ambitions* Meifeng Cai,2011-09-22 The present work provides an important stimulus for the next generation of rock engineers because in the future there will be more emphasis on the use of the Earth s resources and their sustainability and more accountability of engineers decisions The increasing energy demand will be met by the continued operation and

development of new coal mines hydroelectric plants and nuclear power stations with one or more underground nuclear waste repositories In particular enhanced methods of site investigation rock characterisation rock failure understanding computer modelling and rock excavation and support are needed Many of the 200 papers indicate that we can be confident in the continuing development of rock mechanics and r

Engineering Behaviour of Rocks Ian 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 which this can affect the behaviour of rock masses is considered 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

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