

CHARLES JAEGER

Rock mechanics and engineering



SECOND EDITION

Rock Mechanics And Engineering Jaeger

Qihu Qian, Yingxin Zhou



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 **Rock Mechanics and Engineering** C. Jaeger, 1972

Fundamentals of Rock Mechanics J. C. Jaeger, Neville G. W. Cook, 1979-11-29 **An Outline of Soil and Rock Mechanics** Pierre Habib, 1983-07-21 Fundamentals of Rock Mechanics John Conrad Jaeger, Neville G. W. Cook, 1976

Fundamentals of Rock Mechanics [by] J.C. Jaeger [and] N.G.W. Cook John Conrad Jaeger, 1969 *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 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 **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

ENGINEERING IN ROCKS FOR SLOPES, FOUNDATIONS AND TUNNELS T. RAMAMURTHY, 2014-01-01 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 under graduate 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 Third Edition of the book is further enriched with the addition of a number of case histories in which the analyses and designs were carried out by adopting rock mass parameters as per RMR Q or GSI The consequence of such an approach is critically examined With the adoption of parameters from joint factor excellent performance prediction has been demonstrated for anisotropic rocks and tunnel Various expressions developed for K_n and K_s for different conditions are included for adoption in numerical analyses When dilatancy component is separated the scale effect on shear response is insignificant This edition provides a comprehensive understanding of rock mass response and enables students to tackle rock engineering problems more confidently and realistically and therefore it will be of immense benefit to students teachers professionals and designers alike

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