

Rock Slope Engineering Third Edition

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this classic handbook deals with the geotechnical problems of rock slope design it has been written for the non specialist mining or civil engineer with worked examples design charts coverage of more detailed analytical methods and of the collection and interpretation of geological and groundwater information and tests for the mechanical

rock slope engineering covers the investigation design excavation and remediation of man made rock cuts and natural slopes primarily for civil engineering applications it presents design information on structural geology shear strength of rock and ground water including weathered rock slope design methods are discussed for planar wedge circular and toppling failures including seismic design and numerical analysis information is also provided on blasting slope stabilization movement monitoring and civil engineering applications this fifth edition has been extensively up dated with new chapters on weathered rock including shear strength in relation to weathering grades and seismic design of rock slopes for pseudo static stability and newmark displacement it now includes the use of remote sensing techniques such as lidar to monitor slope movement and collect structural geology data the chapter on numerical analysis has been revised with emphasis on civil applications the book is written for practitioners working in the fields of transportation energy and industrial development and undergraduate and graduate level courses in geological engineering

this book has been specially divided into studies on understanding recognizing evaluating and managing risk and the issues are discussed both in theory and in practice the design issues affecting risk are examined and the types of ground conditions and their relative risks are compared through both research and case histories to make this an

invaluable volume for anyone involved in ground engineering

this includes the proceedings of the international symposium abisko sweden 28 august 2 september 1983 rock bolts today represent the dominant support system in mines and underground structures some results and experiences are discussed to give a better understanding of the strength of individual rock bolts and systems of bolts and the interaction between bolts and rock masses of various types topics covered are as follows rock bolting in theory and experiments design principles and experience and ground control and instrumentation cable bolting

the stability of rock slopes is an important issue in both civil and mining engineering on civil projects rock cuts must be safe from rock falls and large scale slope instability during both construction and operation in open pit mining where slope heights can be many hundreds of meters the economics of the operation are closely related to the steepest stable slope angle that can be mined this extensively updated version of the classic text rock slope engineering by hoek and bray deals comprehensively with the investigation design and operation of rock slopes investigation methods include the collection and interpretation of geological and groundwater data and determination of rock strength properties including the hoek brown rock mass strength criterion slope design methods include the theoretical basis for the design of plane wedge circular and toppling failures and design charts are provided to enable rapid checks of stability to be carried out new material contained in this book includes the latest developments in earthquake engineering related to slope stability probabilistic analysis numerical analysis blasting slope movement monitoring and stabilization methods the types of stabilization include rock anchors shotcrete drainage and scaling as well as rock fall protecting methods involving barriers ditches nets and sheds rock slopes civil and mining engineering contains both worked examples illustrating data interpretation and design methods and chapters on civil and mining case studies the case studies demonstrate the application of design methods to the construction of stable slopes in a wide variety of geological conditions the book provides over 300 carefully selected references for those who wish to study the subject in greater detail it also includes an introduction by dr evert hoek

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a number of methods currently exist for the analysis and design of slopes this book provides a critical review of these and offers several more appropriate approaches for

overcoming numerical convergence and the location of critical failure surfaces in two dimensional and three dimensional cases new concepts in three dimensional stability analysis finite element analysis and the extension of slope stability problems to lateral earth pressure problems are also addressed it gives helpful practical advice and design resources in the form of recommendations for good analysis and design practice design charts and tables for the engineer limitations are detailed of both limit equilibrium and the finite element method in the assessment of the stability of a slope and guidance is provided for assessing the fundamental assumptions and limitations of stability analysis methods and computer modelling the book provides ample examples to illustrate how this range of problems should be dealt with the final chapter touches on design and its implementation on site the emphasis is on the transfer of the design to its physical implementation on site in a holistic way taking full account of the latest developments in construction technology engineering and construction problems tend to be pigeonholed into different classes of problem such as slope stability bearing capacity and earth pressure behind retaining structures this is quite unnecessary this book offers a unified approach which is conceptually practically and philosophically more satisfying

although most mining companies utilise systems for slope monitoring experience indicates that mining operations continue to be surprised by the occurrence of adverse geotechnical events a comprehensive and robust performance monitoring system is an essential component of slope management in an open pit mining operation the development of such a system requires considerable expertise to ensure the monitoring system is effective and reliable written by instrumentation experts and geotechnical practitioners guidelines for slope performance monitoring is an initiative of the large open pit lop project and the fifth book in the guidelines for open pit slope design series its 10 chapters present the process of establishing and operating a slope monitoring system the fundamentals of pit slope monitoring instrumentation and methods monitoring system operation data acquisition management and analysis and utilising and communicating monitoring results the implications of increased automation of mining operations are also discussed including the future requirements of performance monitoring guidelines for slope performance monitoring summarises leading mine industry practice in monitoring system design implementation system management data management and reporting and provides guidance for engineers geologists technicians and others responsible for geotechnical risk management

more than ten years have passed since the first edition was published during that period there have been a substantial number of changes in geotechnical engineering especially in the applications of foundation engineering as the world population increases more land is needed and many soil deposits previously deemed unsuitable for residential housing or other construction projects are now being used such areas include problematic soil regions mining subsidence areas and sanitary landfills to overcome the problems associated with these natural or man made soil deposits new and improved methods of analysis design and implementation are needed in foundation construction as society develops and living standards rise tall buildings transportation facilities and industrial complexes are increasingly being built because of the heavy design loads and the complicated environments the traditional design concepts construction materials methods and equipment also need improvement further recent energy and material shortages have caused additional burdens on the engineering profession and brought about the need to seek alternative or cost saving methods for foundation design and construction

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