Geotechnical Core Logging

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Introduction to drill core and core logging**Geotechnical Logging, Mapping Procedures and Data Analysis**

CoreProfiler: Making Geotechnical Measurements*Rock Core Fracture* ~~Geological logging for core sample: Structural logging easy to understand~~ *Geological logging of Cores*

Improving the core logging process through simple, powerful workflows~~Sediment Coring and Logging Demonstration 10-10-12~~ **REFLEX EZ-LOGGER** *Core logging: Dip and Strike direection measurement on real geology work* ~~Foundation Design and Analysis: Boring Logs and Their Interpretation~~ *How to calculate Rock Quality Designation (RQD) and Core Recovery (CR)* ~~Tethered Logging EXTREME SLOPES- ClimbMax - Chilton Logging~~ Rock and Mineral Identification Wireline Core Drilling with SPT Soil Testing Drill Rig STR-174 Logging In MB (part 1) ~~SPT~~ Well Logging - What is well logging? *An introduction to drilling and sampling in geotechnical practice -- 2nd Edition*

Geological Studies: Drilling Boreholes*Well Logging : SP \u0026 GR Log* **Standard Penetration Test (SPT) Demonstration Core logging training at Asanko mine - 21.03.2019 | 1**

Drilling for soil samples*Minalyzer C S, Core Logging Optimization Through Core Scanning at George Fisher Mine* ~~RQD GEOLOGY~~ ~~Mineral identification and core logging with oreXpress spectrometer~~ John-Mark's Geo Tutorial Episode 4 - Drill Core Processing ~~Visual Cuttings \u0026 Core Description to Characterize Reservoir \u0026 Non Reservoir Rock~~ *Core Description* **Geotechnical Core Logging**

Core logging procedure The following steps are suggested during the core logging process: Clean the core of drilling fluids or mud. Mark major structures, proposed point load testing locations, and depths (every 1-2 metres) on undisturbed core in splits.

Geotechnical logging techniques - QueensMineDesignWiki

Geotechnical Core Logging – Data collected during drill programs from early stages of a project often forms the basis for project design. Geotechnical core logging is usually a very detail-oriented, slow, and rather tedious process that requires long periods of attention from the personnel doing the logging.

Geotechnical Core Logging | RockEng

Basic logging is conducted for every run. The drilling run is considered to be the length of rod that was drilled into the ground before recovering the core inner-tube. At the end of every drilling run, the driller brings the core inner- tube to the surface to empty. A “ full ” drilling run should be 3.0m±10%.

Sabina BackRiver GTCoreLoggingManual

A geotechnical core logging process has been developed to record mechanical and structural properties of the rock mass. The method enables data for a wide range of rock properties and geotechnically signi fi cant major structures to be collected including rock strength, joint surface condition, fracture frequency and fracture orientation.

Optimising Geotechnical Logging to Accurately Represent ...

A guide for the logging of borehole core for rock engineering purposes is proposed. General acceptance of such a guide ensures that core logs will generally contain meaningful descriptions of the rock mass parameters most significant in rock engineering problems.

A guide to core logging for rock engineering

Core logging is the systematic recording and measuring of as much information as possible/required to determine the lithology (rock types), mineralogy, potential geological history, structure and alteration zones through a tiny piece of cylindrical rock drilled and removed from a potential mineral deposit.

THE BASICS OF LOGGING CORE FOR EXPLORATION | Canada Mines

Rock Core Logging For Engineering Purposes Paul Maconochie, GeoTek Solutions Pty Ltd 1 Requirements of a Borehole Log “ A borehole log should provide an accurate and comprehensive record of the geological conditions encountered together with an other relevant information obtained during drilling. ” .

Notes or rock core logging for engineering purposes

GUIDELINES FOR CORE LOGGING These guidelines incorporate procedures and methods used by many field offices and are appropriate for "standard" engineering geology/geotechnical log forms, computerized log forms, and many of the modified log forms used by various Bureau of Reclamation (Reclamation) offices.

GUIDELINES FOR CORE LOGGING

Whilst sure that most practitioners have access to sample and core logging sheets, many will not be familiar with the requirements of logging in trial pits, tunnels or carrying out scanline logging. These guidance and proforma sheets can be downloaded from the list below.

Field guidance tables for soil and rock description ...

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geotechnical core logging

The main purpose of geotechnical logging for mine design is to obtain information that may be used to establish the engineering properties of the rock mass. The data gathered from geotechnical...

Geotechnical Core Logging - linkedin.com

Geotechnial Core Logging is the process of recording rock descriptions on boring logs, where primary means of communicating rock properties are used in the design and construction of underground works including foundations in and on rock, rock slope and tunnel support, and excavations in rock.

Geotechnical Core Logging - EzineArticles

1.3 The purpose of geotechnical logging and scope of this Guideline Irrespective of how they are accessed, subsurface materials are described, named and classified by the geologist according to their physical characteristics observed in the field, and via assessment of their properties using both

Geotechnical Logging

Geomechanical Core Logging To have high quality, reliable data collection for modeling, ideally, this task is conducted by a trained and experienced geotechnical core logger.

360 GEOTECH

Geotechnical investigations are performed by geotechnical engineers or engineering geologists to obtain information on the physical properties of soil earthworks and foundations for proposed structures and for repair of distress to earthworks and structures caused by subsurface conditions. This type of investigation is called a site investigation.

Geotechnical investigation - Wikipedia

Structural logging is one of process for diamond drilling in geology field work.

Geological logging for core sample: Structural logging easy to understand

Geotechnical core logging refers to core logging procedures followed in civil engineering industries and for common structures and differentiated from core logging used in the oil and gas industry. Geotechnical core logging aims to provide adequate descriptions of all substrata formations encountered during the drilling procedure.

geotechnical core logging Software - Geotechpedia

Physical Logging MineGeoTech provides experienced engineering geologists and geologist to undertake geological and/or geotechnical logging of core. This can be provided as part of your team, as a component of an economic study, or training to develop your staffs ’ core competencies.

This is the first authoritative reference on rock mass classification, consolidating into one handy source information once widely scattered throughout the literature. It includes new, previously unpublished material and case histories, presents the fundamental concepts of classification schemes, and critically appraises their practical application in industrial projects such as tunneling and mining.

Guidelines for Open Pit Slope Design is a comprehensive account of the open pit slope design process. Created as an outcome of the Large Open Pit (LOP) project, an international research and technology transfer project on rock slope stability in open pit mines, this book provides an up-to-date compendium of knowledge of the slope design processes that should be followed and the tools that are available to aid slope design practitioners. This book links innovative mining geomechanics research into the strength of closely jointed rock masses with the most recent advances in numerical modelling, creating more effective ways for predicting rock slope stability and reliability in open pit mines. It sets out the key elements of slope design, the required levels of effort and the acceptance criteria that are needed to satisfy best practice with respect to pit slope investigation, design, implementation and performance monitoring. Guidelines for Open Pit Slope Design comprises 14 chapters that directly follow the life of mine sequence from project commencement through to closure. It includes: information on gathering all of the field data that is required to create a 3D model of the geotechnical conditions at a mine site; how data is collated and used to design the walls of the open pit; how the design is implemented; up-to-date procedures for wall control and performance assessment, including limits blasting, scaling, slope support and slope monitoring; and how formal risk management procedures can be applied to each stage of the process. This book will assist in meeting stakeholder requirements for pit slopes that are stable, in regards to safety, ore recovery and financial return, for the required life of the mine.

Rock Mechanics for Natural Resources and Infrastructure Development contains the proceedings of the 14th ISRM International Congress (ISRM 2019, Foz do Igua ç u, Brazil, 13-19 September 2019). Starting in 1966 in Lisbon, Portugal, the International Society for Rock Mechanics and Rock Engineering (ISRM) holds its Congress every four years. At this 14th occasion, the Congress brings together researchers, professors, engineers and students around contemporary themes relevant to rock mechanics and rock engineering. Rock Mechanics for Natural Resources and Infrastructure Development contains 7 Keynote Lectures and 449 papers in ten chapters, covering topics ranging from fundamental research in rock mechanics, laboratory and experimental field studies, and petroleum, mining and civil engineering applications. Also included are the prestigious ISRM Award Lectures, the Leopold Muller Award Lecture by professor Peter K. Kaiser. and the Manuel Rocha Award Lecture by Dr. Quinghua Lei. Rock Mechanics for Natural Resources and Infrastructure Development is a must-read for academics, engineers and students involved in rock mechanics and engineering. Proceedings in Earth and geosciences - Volume 6 The ‘ Proceedings in Earth and geosciences ’ series contains proceedings of peer-reviewed international conferences dealing in earth and geosciences. The main topics covered by the series include: geotechnical engineering, underground construction, mining, rock mechanics, soil mechanics and hydrogeology.

This new edition has been completely revised to reflect the notable innovations in mining engineering and the remarkable developments in the science of rock mechanics and the practice of rock angineering taht have taken place over the last two decades. Although "Rock Mechanics for Underground Mining" addresses many of the rock mechanics issues that arise in underground mining engineering, it is not a text exclusively for mining applications. Based on extensive professional research and teaching experience, this book will provide an authoratative and comprehensive text for final year undergraduates and commencing postgraduate stydents. For profesional practitioners, not only will it be of interests to mining and geological engineers, but also to civil engineers, structural mining geologists and geophysicists as a standard work for professional reference purposes.

This book is Volume 1 of the EUROCK 2018 proceedings. Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018, the 2018 International Symposium of the International Society for Rock Mechanics (ISRM 2018, Saint Petersburg, Russia, 22-26 May 2018). Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology, the main topics of the book include: - Physical and mechanical properties of fractured rock (laboratory testing and rock properties, field measurements and site investigations) - Geophysics in rock mechanics - Rock mass strength and failure - Nonlinear problems in rock mechanics - Effect of joint water on the behavior of rock foundation - Numerical modeling and back analysis - Mineral resources development: methods and rock mechanics problems - Rock mechanics and underground construction in mining, hydropower industry and civil engineering - Rock mechanics in petroleum engineering - Geodynamics and monitoring of rock mass behavior - Risks and hazards - Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering. EUROCK 2018, organized by the Saint Petersburg Mining University, is a continuation of the successful series of ISRM symposia in Europe, which began in 1992 in Chester, UK.

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This Second Edition has been brought up-to-date and incorporates modern developments in coring techniques and core handling. All aspects of cores are covered including cutting and recovery; wellsite handling and logging; recognition of coring damage; laboratory analysis; logging and sampling; preservation and storage. Logging and interpretation are dealt with in detail, encompassing structural and engineering investigations in addition to sedimentology. Emphasis is laid throughout on those features most important to the economical development of geological resources. --

This practical handbook of properties for soils and rock contains, in a concise tabular format, the key issues relevant to geotechnical investigations, assessments and designs in common practice. In addition, there are brief notes on the application of the tables. These data tables are compiled for experienced geotechnical professionals who require a reference document to access key information. There is an extensive database of correlations for different applications. The book should provide a useful bridge between soil and rock mechanics theory and its application to practical engineering solutions. The initial chapters deal with the planning of the geotechnical investigation, the classification of the soil and rock properties and some of the more used testing is then covered. Later chapters show the reliability and correlations that are used to convert that data in the interpretative and assessment phase of the project. The final chapters apply some of these concepts to geotechnical design. This book is intended primarily for practicing geotechnical engineers working in investigation, assessment and design, but should provide a useful supplement for postgraduate courses.

The subject of rock characterization is not only about the optimal length-to-diameter ratio for a compression test specimen and other similar tactical aspects of the testing procedures, it is also about the whole strategic concept of how to characterize naturally-occurring rock masses, which have been in existence for millions of years. They have been operating as natural process-response systems for all time and are about to be perturbed by engineers in order to achieve particular objectives. By international authors, this volume is important and useful for all geotechnical engineers and related positions who need to know the latest information to succeed.

This book provides a detailed overview of the operational principles of modern mining geology, which are presented as a good mix of theory and practice, allowing use by a broad range of specialists, from students to lecturers and experienced geologists. The book includes comprehensive descriptions of mining geology techniques, including conventional methods and new approaches. The attributes presented in the book can be used as a reference and as a guide by mining industry specialists developing mining projects and for optimizing mining geology procedures. Applications of the methods are explained using case studies and are facilitated by the computer scripts added to the book as Electronic Supplementary Material.