

Calculation Of Drilling And Blasting Parameters For Quarry

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Calculation Of Drilling And Blasting

The method for calculating drilling-and-blasting operations parameters is based on the regularities of emulsion explosives energy characteristics change, the extent of detonation velocity...

(PDF) METHOD FOR CALCULATION OF DRILLING-AND-BLASTING ...

Drilling blasting operations are one of the most influential factors on the cost of minerals resources exploitation [4]. To carry out blasting operation in on optimum manner it is essential that ...

CALCULATION OF DRILLING AND BLASTING PARAMETERS FOR QUARRY ...

1. Calculation sheet-drill pattern dimensions for average and alterna-tive blasting conditions..... 9 2. Blasting pattern dimensions for Ohio, Adams County, Quarry No. 1... 11 3. Blasting pattern dimensions for Ohio, Highland County,

Designing Blast Patterns Using Empirical Formulas

Blasthole diameter (D): Generally, the cost of drilling and blasting decreases as hole diameter increases. The relation between blasthole diameter and face height is approximately: $D = 0.001$ to $0.02 H$ Burden (B) : This is the distance in metres from a blasthole to the nearest free face and has the following approximate relation: $B = 25D$ to $40D$

H BLASTING IN SURFACE EXCAVATION

20.4 Bench blasting with horizontal blastholes 195 20.5 Rip-rap production blasting 195 26 UNDERWATER BLASTING 272 20.6 Cast blasting 196 1 yyj 26.1 Introduction 272 Appendix 1: Eormulas to calculate bench 26.2 Methods of execution 272 blasting patterns 177 26.3 Calculations for charges and drilling References ZUJ patterns 247

DRILLING AND BLASTING OF ROCKS

Burden Calculations. Welcome to Academy Blasting's video on burden calculations for bench blasting applications! In this short 3 minute video by Anthony Konya, we will learn how to calculate burdens in both imperial and metric units.

Burden Calculations for BlastingAcademy Blasting

Rock Volume in Construction blasting is based on bank cubic yards. This is rock in place. In blasting, you must drill deeper then needed to facilitate breaking the rock to grade. this extra drilling is called subdrill. Many contractors will try and charge for this. So, accepted practice is $(\text{length} \times \text{width} \times \text{cut depth})/27$. In regards to overburden.

Rock Blasting Volume Calculations - Earthwork/grading ...

may represent as much as 80 percent of the total drilling and blasting costs, mainly because of utilization of the lower cost explosive. By contrast, in the northeastern United States, hard rock formations exist in a relatively wet environment, where the explosives costs can be as much as 70 percent of the total drilling and blasting expense.

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Chapter 8 BLAST DESIGN

Drilling and blasting is the controlled use of explosives and other methods such as gas pressure blasting pyrotechnics, to break rock for excavation. It is practiced most often in mining, quarrying and civil engineering such as dam, tunnel or road construction. The result of rock blasting is often known as a rock cut.. Drilling and blasting currently utilizes many different varieties of ...

Drilling and blasting - Wikipedia

Drilling and blasting can be considered as a system that consists of three different subsystems, including technical parameters like burden, spacing, depth, bit or drill hole diameter, penetration rate, explosive mass, etc. ; economic parameters such as bit cost, hourly drilling costs, drilling and blasting operational costs as well as environmental parameters, for example, emissions of NO_x, CO and SO_x.

Optimized design of drilling and blasting operations in ...

and blasting. In drilling, there is now available advanced use of GPS guided drilling systems that continue to grow and improve precision and efficiency. Drill depths are accounted for more accurately, making it easier to assign the right amount of explosives in blasting. New GPS-enabled applications have improved strata recognition ...

BEST PRACTICES IN DRILL AND BLAST

zRock Blasting consists of drilling holes in a rock mass at depths, in diameters, and at spacing so that an explosive can fracture the rock in a controlled manner. PDHonline.org Rock Blasting Fundamentals Slide No. 4 Introduction Blasting of a rock slope for a road cut.

Copy of Rock Blasting Fundamentals - PDHonline.com

Presplit blasting Spacing = Hole diameter x 12 Burden = 0.5 x production blast burden (B)
Uncharged length at top = 10 x D Powder factor = 0.5kg per square metre of face Do not stem holes. Fire all holes on the same delay, or in groups of ≥ 5 holes Smooth Blasting Spacing = 15 x Hole diameter (hard rock) 20 x Hole diameter (soft rock)

Blasting and Explosives Quick Reference Guide 2010

Calculation of Specific Drilling and Specific Charge are in the program based on Rock Volume per Blast. In turn the Rock Volume is based on Width of the Blast, which means the distance between the first and last

BLASTEC - Orica

Reclamation generally limits blast hole diameters for structural excavation drilling to 3.5 inches (90 mm). Blasting patterns usually range from 6 by 8 feet (1.8 by 2.4 meters) to 8 by 15 feet (2.4 by 4.6 m) and are usually rectangular with the burden being less than the spacing.

Engineering Geology Field Manual - Volume II - 2nd Ed ...

The most serious problem with this type of blasting is borehole accuracy. Key holes are usually diamond drilled or drilled with a Boart drill. If the boreholes are inaccurate, freezing of the muck can occur with re-drilling by remote as the only remedy for re-blasting. The calculation of void space can be expressed by the following equation;

Raise Design and Operations Blasting

Blasthole Drilling This module presents aspects of surface drilling that are important to blasting operations. The purpose of drilling into rock is to provide a "blasthole" into which explosives can be loaded. Good drilling practices include carefully monitoring drill-rig operating parameters, taking careful notes of the changes in geology ...

Blaster's Training Modules - Module 4 - Blasthole Drilling

Demolition Dave Drilling and Blasting 64,349 views. 15:53. drilling and blasting procedure for Trench and Quarry - Duration: 3:28. Tariq Mahmood 11,958 views. 3:28. Let's Blast!

Blasting technique

drilling and blasting Download drilling and blasting or read online books in PDF, EPUB, Tuebl, and Mobi Format. ... 14 appendices provide vital technical and commercial data, to further support the reader to design, plan, execute, and calculate blasthole drilling operations. This volume is intended

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for professionals and technicians in mining ...

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