

MINING METHODS, MINE DESIGN AND UNIT OPERATIONS

SURFACE MINING

Prof. S. Durucan
Department of Earth Science and Engineering
Royal School of Mines
Imperial College London

1 INTRODUCTION

Mining is about extracting valuable rock material (mineral) out of the ground and marketing it at a profit. An economically mineable mineral is referred to as ore and the measure used to distinguish ore from waste is the cut-off grade, commonly expressed in terms of metal content (e.g. gold in grams per ton or copper in % by weight).

In most cases, ore is not sold directly by the mine to its customers. To save transport cost it is usually processed to remove as much waste material as possible. This processing involves crushing and milling, followed by separation of ore mineral from waste minerals.

Open-pit, open cast or open cut mines and quarrying, all refer to surface mining operations which are mine workings or excavations open to the surface. Many open pits are started along an outcrop and are continued downward until the thickness of overburden or waste side rock prevents further economic exploitation, Figure 1. Underground mining involves the exploitation of deep seated ore bodies which are reached by access routes (shafts, drifts, etc.) and are extracted using various stoping techniques.

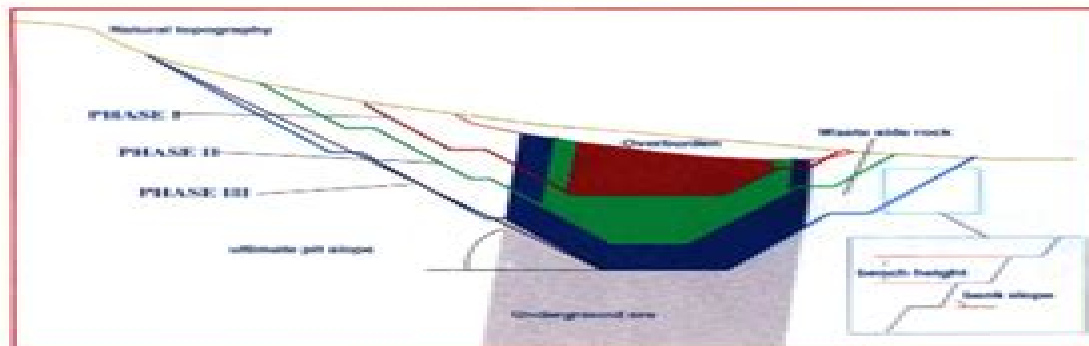


Figure 1. A typical pit cross section - Phases I, II and III are designed using a decreasing cut-off grade thus increasing the volume of ore mined economically (Modified after Bohnet, 1990).

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Computational Science and Its Applications - ICCSA 2006 Osvaldo Gervasi, Vipin Kumar, C.J. Kenneth Tan, David Taniar, Antonio Laganà, Youngsong Mun, Hyunseung Choo, 2006-05-11 The five volume set LNCS 3980 3984 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2006 The volumes present a total of 664 papers organized according to the five major conference themes computational methods algorithms and applications high performance technical computing and networks advanced and emerging applications geometric modelling graphics and visualization information systems and information technologies This is Part I

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Communications Suhel Ahmed Khan,Rajeev Kumar,Omprakash Kaiwartya,Raees Ahmad Khan,Mohammad Faisal,2023-03-21 Wireless network security research is multidisciplinary in nature including data analysis economics mathematics forensics information technology and computer science This text covers cutting edge research in computational intelligence systems from diverse fields on the complex subject of wireless communication security It discusses important topics including computational intelligence in wireless network and communications artificial intelligence and wireless communication security security risk scenarios in communications security resilience metrics and their measurements data analytics of cyber crimes modeling of wireless communication security risks advances in cyber threats and computer crimes adaptive and learning techniques for secure estimation and control decision support systems fault tolerance and diagnosis cloud forensics and information systems and intelligent information retrieval The book Discusses computational algorithms for system modeling and optimization in security perspective Focuses on error prediction and fault diagnosis through intelligent information retrieval via wireless technologies Explores a group of practical research problems where security experts can help develop new data driven methodologies Covers application on artificial intelligence and wireless communication security risk perspective The text is primarily written for senior undergraduate graduate students and researchers in the fields of electrical engineering electronics and communication engineering and computer engineering The text comprehensively discusses wide range of wireless communication techniques with emerging computational intelligent trends to help readers understand the role of wireless technologies in applications touching various spheres of human life with the help of hesitant fuzzy sets based computational modeling It will be a valuable resource for senior undergraduate graduate students and researchers in the fields of electrical engineering electronics and communication engineering and computer engineering

Data Mining for Business Applications Longbing Cao,Philip S. Yu,Chengqi Zhang,Huaifeng Zhang,2008-10-03 Data Mining for Business Applications presents the state of the art research and development outcomes on methodologies

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Advanced Computing and Intelligent Technologies Monica Bianchini, Vincenzo Piuri, Sanjoy Das, Rabindra Nath Shaw, 2021-07-21. This book gathers selected high quality research papers presented at International Conference on Advanced Computing and Intelligent Technologies ICACIT 2021 held at NCR New Delhi India during March 20-21, 2021, jointly organized by Galgotias University India and Department of Information Engineering and Mathematics, Universit Di Siena Italy. It discusses emerging topics pertaining to advanced computing, intelligent technologies and networks including AI and machine learning, data mining, big data analytics, high performance computing, network performance analysis, Internet of things, networks, wireless sensor networks and others. The book offers a valuable asset for researchers from both academia and industries involved in advanced studies.

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Inventive Systems and Control V. Suma, Pascal Lorenz, Zubair Baig, 2023-06-14. This book presents selected papers from the 7th International Conference on Inventive Systems and Control ICISC 2023 held on January 30-31, 2023 at JCT College of Engineering and Technology Coimbatore India. The conference proceedings of ICISC 2023 include an analysis of the class of intelligent systems and control techniques that utilize various artificial intelligence technologies where there are no mathematical models and system available to make them remain controlled. Inspired by various existing intelligent techniques, the primary goal of ICISC 2023 proceedings is to present the emerging innovative models to tackle the challenges faced by the existing computing and communication technologies.

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