

Ground Engineering - Principles and Practices for Underground Coal Mining

By J.M. Galvin

Download now

Read Online ➔

Ground Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin

This book teaches readers ground engineering principles and related mining and risk management practices associated with underground coal mining. It establishes the basic elements of risk management and the fundamental principles of ground behaviour and then applies these to the essential building blocks of any underground coal mining system, comprising excavations, pillars, and interactions between workings.

Readers will also learn about types of ground support and reinforcement systems and their operating mechanisms. These elements provide the platform whereby the principles can be applied to mining practice and risk management, directed primarily to bord and pillar mining, pillar extraction, longwall mining, sub-surface and surface subsidence, and operational hazards.

The text concludes by presenting the framework of risk-based ground control management systems for achieving safe workplaces and efficient mining operations. In addition, a comprehensive reference list provides additional sources of information on the subject. Throughout, a large variety of examples show good and bad mining situations in order to demonstrate the application, or absence, of the established principles in practice.

Written by an expert in underground coal mining and risk management, this book will help students and practitioners gain a deep understanding of the basic principles behind designing and conducting mining operations that are safe, efficient, and economically viable.

Ideal for students and practitioners


About the author Emeritus Professor Jim Galvin has a relatively unique combination of industrial, research and academic experience in the mining industry that spans specialist research and applied knowledge in ground engineering, mine management and risk management. His career encompasses directing ground engineering research groups in South Africa and Australia;

practical mining experience, including active participation in the mines rescue service and responsibility for the design, operation, and management of large underground coal mines and for the consequences of loss of ground control as a mine manager; appointments as Professor and Head of the School of Mining Engineering at the University of New South Wales; and safety advisor to a number of Boards of Directors of organisations associated with mining.


Awards Winner of the **ACARP Excellence Research Award 2016**. The Australian Coal Industry's Research Program selects recipients to receive ACARP Research and Industry Excellence Awards every two years. The recipients are selected on the recommendation of technical committees. They are honored for achievement of a considerable advance in an area of importance to the Australian coal mining industry. An important criterion is the likelihood of the results from the project being applied in mines.

Winner of the **Merv Harris Award** from the Mine Managers Association of Australia. The Merv Harris Award is named for Merv Harris who donated money to be invested for a continuing award in 1988. With the award, the Mine Managers Association of Australia honors members of the Association who demonstrate technical achievement in the Australian Coal Mining Industry. The first award was granted in 1990, since then, only two people have received this honor.

The book has received the following awards.... AGS (Australian Geomechanics Society) congratulates Dr Galvin for these awards

 [Download Ground Engineering - Principles and Practices for ...pdf](#)

 [Read Online Ground Engineering - Principles and Practices fo ...pdf](#)

 [**Download** Ground Engineering - Principles and Practices for ...pdf](#)

 [**Read Online** Ground Engineering - Principles and Practices fo ...pdf](#)

About the author Emeritus Professor Jim Galvin has a relatively unique combination of industrial, research and academic experience in the mining industry that spans specialist research and applied knowledge in ground engineering, mine management and risk management. His career encompasses directing ground engineering research groups in South Africa and Australia; practical mining experience, including active participation in the mines rescue service and responsibility for the design, operation, and management of large underground coal mines and for the consequences of loss of ground control as a mine manager; appointments as Professor and Head of the School of Mining Engineering at the University of New South Wales; and safety advisor to a number of Boards of Directors of organisations associated with mining.

Review From reader reviews:

Melvin Loch: Why don't make it to be your habit? Right now, try to ready your time to do the important act, like looking for your favorite publication and reading a publication. Beside you can solve your problem; you can add your knowledge by the publication entitled Ground Engineering - Principles and Practices for Underground Coal Mining. Try to stumble through book Ground Engineering - Principles and Practices for Underground Coal Mining as your buddy. It means that it can being your friend when you truly feel alone and beside that course make you smarter than ever. Yeah, it is very fortunated to suit your needs. The book makes you more confidence because you can know almost everything by the book. So , we need to make new experience and also knowledge with this book.

Ricardo Kiernan: Have you spare time for a day? What do you do when you have much more or little spare time? Yep, you can choose the suitable activity regarding spend your time. Any person spent their spare time to take a stroll, shopping, or went to typically the Mall. How about open or perhaps read a book allowed Ground Engineering - Principles and Practices for Underground Coal Mining? Maybe it is to become best activity for you. You understand beside you can spend your time with your favorite's book, you can wiser than before. Do you agree with it has the opinion or you have additional opinion?

Justin Campbell: Do you certainly one of people who can't read satisfying if the sentence chained from the straightway, hold on guys this kind of aren't like that. This Ground Engineering - Principles and Practices for Underground Coal Mining book is readable by simply you who hate those perfect word style. You will find the details here are arrange for enjoyable examining experience without leaving perhaps decrease the knowledge that want to deliver to you. The writer of Ground Engineering - Principles and Practices for Underground Coal Mining content conveys prospect easily to understand by many individuals. The printed and e-book are not different in the articles but it just different as it. So , do you nevertheless thinking Ground Engineering - Principles and Practices for Underground Coal Mining is not loveable to be your top collection reading book?

Alberto Turcotte: Nowadays reading books are more than want or need but also turn into a life style. This reading behavior give you lot of advantages. Advantages you got of course the knowledge your information inside the book which improve your knowledge and information. The information you get based on what kind of book you read, if you want send more knowledge just go with training books but if you want sense happy read one having theme for entertaining including comic or novel. The particular Ground Engineering - Principles and Practices for Underground Coal Mining is kind of guide which is giving the reader unpredictable experience.

Download and Read Online Ground Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin #RG30SCD61IU

Read Ground Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin for online ebookGround Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Ground Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin books to read online.Online Ground Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin ebook PDF downloadGround Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin DocGround Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin MobipocketGround Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin EPubRG30SCD61IU: Ground Engineering - Principles and Practices for Underground Coal Mining By J.M. Galvin