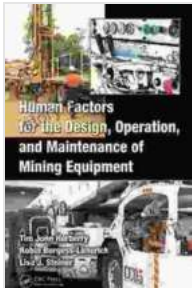


Human Factors for the Design, Operation, and Maintenance of Mining Equipment



Human Factors for the Design, Operation, and Maintenance of Mining Equipment by Tim Horberry

★★★★★ 5 out of 5

Language : English

File size : 10097 KB

Screen Reader : Supported

Print length : 227 pages

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The mining industry is a vital part of the global economy, providing raw materials for a wide range of products and services. However, mining can also be a dangerous industry, with workers exposed to a variety of hazards, including falls, crushing injuries, and exposure to toxic chemicals. Human factors engineering can play a vital role in reducing the risks associated with mining by designing equipment and workplaces that are safe and efficient for workers to use.

This book provides a comprehensive overview of human factors engineering as it relates to the design, operation, and maintenance of mining equipment. It covers topics such as:

- Ergonomics
- Safety
- Human-machine interaction

- Training

This book is a valuable resource for anyone involved in the design, operation, or maintenance of mining equipment. It provides practical guidance on how to apply human factors principles to create safe and efficient workplaces.

Chapter 1: Ergonomics

Ergonomics is the study of how people interact with their environment. It is concerned with designing workplaces, products, and systems that are safe, efficient, and comfortable for people to use.

In mining, ergonomics can be applied to a wide range of tasks, including:

- Designing mining equipment that is comfortable and easy to operate
- Creating safe and efficient workspaces
- Developing training programs that teach workers how to use equipment and work safely

By applying ergonomic principles, mining companies can reduce the risk of injuries and illnesses, improve productivity, and create a more positive work environment for their employees.

Chapter 2: Safety

Safety is a top priority in the mining industry. Workers are exposed to a variety of hazards, including falls, crushing injuries, and exposure to toxic chemicals. Human factors engineering can play a vital role in reducing the

risks associated with mining by designing equipment and workplaces that are safe for workers to use.

Some of the human factors principles that can be applied to improve safety in mining include:

- Designing equipment that is easy to operate and maintain
- Providing clear and concise instructions for operating equipment
- Training workers on how to use equipment and work safely
- Creating a work environment that is free of hazards

By applying human factors principles, mining companies can create a safer work environment for their employees.

Chapter 3: Human-Machine Interaction

Human-machine interaction is the study of how people interact with machines. This field of study is becoming increasingly important in mining, as mining equipment becomes more complex and automated.

Some of the human factors principles that can be applied to improve human-machine interaction in mining include:

- Designing equipment that is easy to use and understand
- Providing clear and concise feedback to operators
- Training operators on how to use equipment effectively
- Developing procedures for operating equipment safely

By applying human factors principles, mining companies can improve the efficiency and safety of their operations.

Chapter 4: Training

Training is an essential part of human factors engineering. It is important to provide workers with the knowledge and skills they need to operate equipment and work safely.

Some of the topics that should be covered in training for mining workers include:

- Ergonomics
- Safety
- Human-machine interaction
- Operating procedures
- Emergency procedures

By providing workers with adequate training, mining companies can reduce the risk of accidents and injuries.

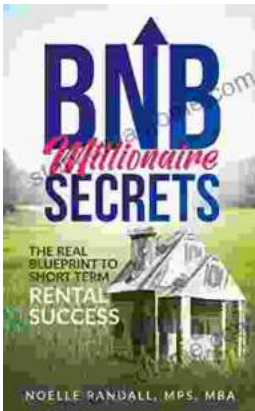
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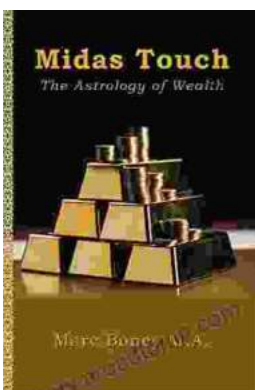


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