



Shovel-Truck Systems: Modelling, Analysis and Calculations

Jacek M. Czaplicki

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This book provides a comprehensive analysis of the exploitation process of shovel-truck systems using modelling, analysis and calculations following specific procedures:

- analyzing the reliability and accessibility of shovels
- discussing the functioning of a truck-repair shop system
- reliability of trucks
- existence of haulers reserve
- repair shop service capability
- possibility of occurrence of a queue of failed trucks
- selection of structural truck system parameters
- reliability of repair stands
- constructing a set of unconditional efficiency measures for the system
- outlining of system productivity measures

The book also aimed to provide a penetrative analysis of 6 stochastic mechanisms, namely the:

- (1) Influence of reliability and accessibility of power shovels on system efficiency and decisions making
- (2) Influence of reliability of hauling machines on the number of repair stands and trucks needed
- (3) Influence of truck accessibility on the number of haulers and repair stands needed
- (4) Influence of reliability of repair stands on the number of failed trucks in a queue waiting for repair, on the number of trucks in work state and the number of repair stands needed
- (5) Influence of all these properties on the number of trucks at power shovels, system efficiency and productivity
- (6) Influence of implementation of type of priority in truck dispatching on system performance parameters.

The book will be of interest to all mining engineers and civil engineers involved in use and development of shovel-truck systems, technology and planning. Moreover, it can be used as textbook for advanced courses in mine mechanization.

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