

عنوان مقاله:

Maintainability measure based on operating environment, a case study: Sungun copper mine

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خلاصه مقاله:

The life cycle cost of a system is influenced by its maintainability. Maintainability is a design parameter, whose operational conditions can affect it significantly. Hence, the effects of these operational conditions should be quantified early in the design phase. The proportional repair model (PRM), which is developed based on the proportional hazard model (PHM), can be used to analyze maintainability considering the effects of the operational conditions. In PRM, the effects of the operational conditions are considered to be time-independent. However, this assumption may not be valid for some cases. The aim of this paper is to present an approach for prediction of the maintainability performance of the mining facilities considering the time-dependent influencing factors. The stratified Cox regression method (SCRM) is used to determine maintainability in the presence of time-dependent covariates for fleet vehicles operating in Sungun Copper Mine, Iran.

کلمات کلیدی:

Maintainability, Proportional Repair Model (PRM), Stratified Cox Regression Method (SCRM), Environmental Conditions (Covariates), Sungun Copper Mine

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