

矿井通风系统抗灾变能力评价指标体系(PDF)

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Title: Evaluation index system for disaster resistance capability of mine ventilation system

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摘要: 矿井通风系统抗灾变能力的确定和提高对于矿山减灾救灾具有重要意义。在通风系统抗灾变能力评价中,指标体系的选取至关重要。根据矿井火灾、救灾、防灾的具体情况及相关文献,从防火措施、防火管理、指挥救灾和井下工人救火素质4方面选取了22个指标,确定了矿井通风系统抗灾变能力的模糊综合评价指标体系,给出了矿井通风系统抗灾变能力指标分级界定值,并采用层次分析法对各个指标的重要性进行排序,提出了通风系统抗灾变能力层次分析结构模型。

Abstract: The determination and improvement of the disaster resistance capability of mine ventilation systems is very important in disaster rescue and disaster reduction. The choice of index system is vital in the evaluation of disaster resistance of mine ventilation system. In this paper, according to the specific conditions of disaster rescue, disaster prevention and relative literatures, twenty two indexes are selected from four aspects, namely fire prevention measures, fire prevention management, disaster rescue comm and and the diathesis of underground workers, a fuzzy comprehensive evaluation index system to evaluate the capability of disaster resistance of ventilation systems is determined. At the same time, the index dividing values for the classification of the capability of disaster resistance of ventilation system are given. Analytic hierarchy process (AHP) is adopted to sort the significance of every index, and then an AHP based structural model for determining the capability of disaster resistance of mine ventilation system is put forward.

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