岩石力学中的Fuzzy数学方法

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摘要　　鉴于岩石力学问题中的许多因素具有强烈的"模糊性"，本文利用Fuzzy数学来研究工程中的岩体力学问题；并针对露天矿山岩体变形破坏问题，应用Fuzzy概率测度理论导出了岩体变形破坏的Fuzzy概率公式，且给出了数值方法，实例计算表明，本方法适用于分析和研究岩石力学尤其是矿山岩体力学问题。

关键词　　岩石力学　Fuzzy数学　Fuzzy概率测度　岩体变形　数值方法

分类号

FUZZY MATHEMATICAL METHOD IN ROCK MECHANICS

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Abstract

In view of the marked "Fuzziness" in the factors that have effect on the problems of rock mechanics, the deformation failure of rock mass in mining engineering is studied by using the Fuzzy mathematical theory in the paper. In accordance with the deformation failure of rock mass in open-pit mines, by applying the theory of Fuzzy probability measures, the Fuzzy probability formula is derived for the deformation failure of rock masses, and the numerical method is given to calculate the Fuzzy probability. The ...

Key words　rock mechanics　fuzzy mathematics　fuzzy probability measures　rock mass deformation　numerical method

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