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Complex with Dangerous Rock Engineering Geological Characteristics and their Reinforcement Technology Research

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Abstract In the southwest mountains, a lot of dangerous rock bands are widely distributed, whose formation conditions are complex, which are diverse, specially located and dangerous. How to reinforce such complex unstable rock band? In this paper, the treatment of typical dangerous rock band is taken as an example, the classification investigation and one by one evaluation is performed first, and then each block composing the complex and dangerous rock band is analyzed and calculated. According to the site conditions and calculated results of each block composing the dangerous rock, using clearing risk - repairing - reinforcement-landscaping and other technology portfolio approach, forming a comprehensive treatment program to conduct a thorough treatment for each dangerous rock, it is proved that such a reinforcement technique has good effects with the management of dangerous rock.

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Complex With Dangerous Rock Engineering Geological Characteristics And Their Reinforcement Technology Research

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Keywords: Dangerous rock band, Engineering geology, Reinforcement technology.

Abstract: In the southwest mountains, a lot of dangerous rock bands are widely distributed, whose formation conditions are complex, which are diverse, specially located and dangerous. How to reinforce such complex unstable rock band? In this paper, the treatment of typical dangerous rock band is taken as an example, the classification investigation and one by one evaluation is performed first, and then each block composing the complex and dangerous rock band is analyzed and calculated. According to the site conditions and calculated results of each block composing the dangerous rock, using clearing risk - repairing - reinforcement- landscaping and other technology portfolio approach, forming a comprehensive treatment program to conduct a thorough treatment for each dangerous rock, it is proved that such a reinforcement technique has good effects with the management of dangerous rock.

Introduction

Research Status.As the dangerous rock is harmful to humans, prevention and reinforcement of the dangerous rock has an early start, especially in China there are many dangerous rocks, studies on dangerous rocks mainly come from the transport, railways, water resources, land, and many other industries. Currently, research on the dangerous rock has four main aspects: (1) dangerous rock destruction instability mode; (2) calculation method of the dangerous rock stability; (3) dangerous rock reinforcement techniques and calculation methods; (4) dangerous rock edge slope prediction. However, current research on dangerous rock is limited to the analysis and evaluation of single block of dangerous rock, the overall research level is not deep, yet the standard control system on dangerous rock is not formed. In this paper, the abundant complex dangerous rock bands distributed in the southwest mountain are taken as the subject of study, the Talon Tower dangerous rock band is taken as a specific example, first, the classification investigation and one by one evaluation is performed, and the analysis and calculation for each dangerous rock block are carried out. Then according to the site conditions and calculated results of each block composing the dangerous rock, using clearing risk - repairing - reinforcement- landscaping and other technology portfolio approach, forming a comprehensive treatment program to conduct a thorough treatment for each dangerous rock.

Basic Condition.Talon Tower dangerous rock band is located within the Talon Tower Scenic Area, Tongchuan District, Dazhou City, Sichuan Province. After years of weathering, four volleys are formed, dangerous rock stands, the top is flat, the tower is shaped like the ancient emperor's jade seal, hence earned the name of Jade Seal Mountain. Because the mountain is located at the main city of Dazhou district, there are lots of ancient temple buildings, full of incense activities and tourists. There are plenty of houses down the mountain, it is a transport hub, pedestrian and vehicle

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