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金包银围堰三维非线性应力应变分析

湖南省水利水电勘测设计研究总院, 湖南 长沙 410007

Threedimensional Nonlinear Stresstrain Analysison Gold Rimming Silver Cofferdam

Hunan Hydro and Power Design Institute, Changsha 410007,China

摘要

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摘要 “金包银”围堰是一种新型的围堰型式, 其具有工程量小、施工快速、稳定性、防渗性好等特点。本文结合土谷塘航电枢纽工程二期“金包银”纵向围堰的工程实际情况, 建立了“金包银”围堰的三维数值模型, 对其进行了三维非线性应力应变分析, 分析其在施工工况和正常运行工况下围堰堰体的应力应变规律, 并指出薄弱部位, 并对混凝土面板配筋的必要性进行了探讨。

关键词: 施工导流 围堰 有限差分法 FLAC3D 应力应变分析

Abstract: Gold rimming silver cofferdam was a new type of cofferdam, Its Characteristics included small quantities, rapid construction, good stability and well impermeable. Based on physical circumstances of gold rimming silver second stage cofferdam of Tugutang navigationhydropower junction, the threedimensional model was established, and threedimensional nonlinear anlysis was proceeded. And then the stresstrain regularities of distribution and weak regions of cofferdam were reveald when the cofferdam were in construction and normal working. At last the necessity of allocating concrete reinforced bar was invesgated.

Keywords: construction diversion cofferdam; finite difference calculus FLAC3D software stress strain analysis.

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