

<<DL/T5198 - 2004 水电水利>>

图书基本信息

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## 前言

Foreword This standard is established according to the requirement of Notice on Confirming the Plan Project to Establish and Revise the Power Industrial Standards in 1999 , with the reference No . 22 Power(2000).the paper issued by the former Power Department of State Economic and Trade Commission. The crane girder anchored to rock wall is called as anchored girder for short , which is the supporting structure for the heavy bridge cranes and is suitable for underground powerhouse , main transformer chamber,tailrace gate chamber and caverns for other purposes in hydropower station.The anchored girder is different from the crane girder supposed on the horizontal rock bench or on the reinforced concrete column.The anchored girder is a kind of load-bearing structures and bears the load by two groups of tensile anchor rods and a group of compressive anchor rods to anchor the reinforced concrete girder on the inclined rock face.In 1980s , the anchored girder then already applied more widely in the North European countries , such as Norway,was introduced into the underground powerhouse of Lubuge Hydropower Station in China.Afterwards it was successfully used in the underground powerhouses of Guangzhou Pumped Storage Power Station(Phase I and Phase II) , Tianhuangping Pumped Storage Power Station , as well as Xiaolangdi , Dachaoshan and Mianhuatan Hydropower Stations and so on.The anchored girder has advantages such as economy, reliability,easier construction , speed up construction progress , reduction of powerhouse span and advanced service etc.At present , this new technology has been applied widely in China.

## 内容概要

为了规范岩壁梁的施工,保证工程质量与安全,特制定了本标准.本标准规定了地下洞室岩壁梁部位开挖方法、岩壁梁锚杆和岩壁梁钢筋混凝土施工,以及对岩壁梁的保护、载荷试验和观测方法等。

书籍目录

Foreword1 Scope2 Normative References3 General4 Excavation of Anchored Girder Area5 Construction of Anchor Rods in Anchored Girder6 Concrete Construction for Anchored Girder7 Protection and Monitoring for Anchored Girder8 Load Test and Monitoring for Anchored GirderAppendix A (Informative Appendix) Determination of Excavation Elevation of Plane for Layer of Anchored GirderAppendix B (Informative Appendix) Excavation of Protective Layer for Anchored GirderAppendix C (Normative Appendix) Adjustment Calculation of Hole Positions for Anchor Rods of Anchored Girder

## 章节摘录

8.0.1 The aim of load test for anchored girder is to check the bearing capacity and construction quality. The test includes static load test and dynamic load test. 8.0.2 Before the load test of rock wall, the test outline shall be worked out. Its contents include the grade of static and dynamic loads, test method, the layout of observation cross sections and instruments, the alarming and control values of instruments, data records and data analysis, etc. 8.0.3 The load test of anchored girder and the load test of bridge crane shall be carried out simultaneously and the load grades may be determined according to the test requirement of the bridge crane or design requirement. 8.0.4 Before test, the embedded instruments shall be checked to confirm they are in normal operation condition. 8.0.5 When conducting the load test of anchored girder, reliable communication shall be available among the observer, command person and the operator of the bridge crane. 8.0.6 During load test of anchored girder, the test shall be stopped when the observation values of the stress meters, displacement meters and multi-point displacement meters reach or exceed the corresponding alarming and control values, and the test can be continued only after the reasons have been ascertained and proper measures have been taken. 8.0.7 During load test of anchored girder, blasting shall not be.

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