

<<长江三峡工程围堰蓄水期>>

图书基本信息

书名：<<长江三峡工程围堰蓄水期>>

13位ISBN编号：9787508460239

10位ISBN编号：7508460235

出版时间：2008-12

出版单位：水利水电出版社

作者：三峡工程泥沙专家组

页数：58

字数：161000

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<长江三峡工程围堰蓄水期>>

内容概要

The Three Gorges Project (TGP) is a key backbone project for the flood control , navigation and water resources development of the Yangtze River . The TGP is located at Sandouping , near Yichang City of Hubei Province , in the Xiling Gorge of the Three Gorges reach on the trunk of the Yangtze River . It is 40 km upstream of the Gezhouba Dam . The Three Gorges Reservoir is designed to have a normal pool level of 175 m above sea level with a corresponding aggregated storage capacity of 39 . 3 billion m³ , and a flood control level of 145 m with a flood control capacity of 22 . 15 billion m³ . It will be of great significance to the flood control efforts in the middle reaches of the Yangtze River . The total installed capacity of the TGP will be 18 . 2 GW and the average annual output will be 84 . 7 billion kW · h .

The navigation conditions will be improved in the entire 600 km long channel in the reservoir area . The construction of the TGP began in 1993 , and the first stage cofferdam was closed in 1997 which cut out the Yangtze River and made it flow through a diversion channel excavated earlier around the dam site . The TGP began its impoundment on June 1 , 2003 , with the main dam and the cofferdam on the right-bank . On June 10 , 2003 , the water level at the dam was raised from the original 70 m (approx .) to 135 m above sea level . In the same month ; the five-step shiplock began trial operation . In July the same year , the output from the first turbine unit was synchronized to the national power grid . From then on , the Three Gorges Reservoir was operated for power generation and navigation . The upstream part of the third stage cofferdam was removed in June , 2006 . Since then , the reservoir water has been retained by the TGP Dam on its own . On September 20 , the pool level began to rise and finally reached 155 . 68 m above sea level on October 28 , with a corresponding aggregated storage capacity of 23 . 3 billion m³ . The period between June , 2003 and August , 2006 is referred to as the cofferdam impoundment period .

<<长江三峡工程围堰蓄水期>>

书籍目录

Preface	1
1 Main Results of Sediment Research for the TGP	1
1.1 Runoff and Sediment Load Inflows	1
1.2 Reservoir Operation Scheme for Long-term Functioning	1
1.3 Siltation in Navigation Channels and Ports in Fluctuating Backwater Zone	1
1.4 Rise of Flood Stage in Chongqing Reach due to Reservoir Sedimentation	1
1.5 Sediment Deposition in Dam Area	1
1.6 Down stream Channel Degradation and Its Impact on Flood Control and Navigation	2
2 Reservoir Impoundment and Field Observations	2
2.1 Reservoir Impoundment	2
2.2 Field Observations	3
3 Summary of Observed Streamflow and Sediment Data	3
3.1 Variations in Upstream Runoffs and Sediment Load	3
3.2 Reservoir Sedimentation	3
3.3 Variation in Runoffs and Sediment Loads and Channel Degradation below the TGP Dam	4
4 Impact of Sediment Problems and Countermeasures	4
4.1 Impact of Sediment Deposition and Scour on Navigation	4
4.2 Impact of Channel Degradation on Flood Control	4
4.3 Impact of Deposition in Front of Dam on Power Generation	5
5 Preliminary Examination of Previous Research Results	5
5.1 Incoming Conditions of Water Flow and Sediment Load	5
5.2 Computation for Reservoir Sedimentation	5
5.3 Degradation Downstream from the Dam	5
5.4 Comparison between Field Data and Results of Physical Models in Dam Area	6
6 Conclusions	6
6.1 Principal Results of Field Observation in Recent Years and Preliminary Analysis	6
6.2 Prospect	

<<长江三峡工程围堰蓄水期>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>