

<<2009-黄河国际论坛-全五册>>

图书基本信息

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作者：尚宏琦，骆向新 等主编

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## 前言

On behalf of the Organizing Committee of the 4th International Yellow River Forum (IYRF) and the conference host, Yellow River Conservancy Commission (YRCC), I warmly welcome you from all over the world to Zhengzhou to attend the 4th IYRF. Since 2003, we have hosted three IYRFs successfully in Zhengzhou and Dongying respectively, which have got high attentions and great supports from water field around the world. Through the communication platform provided by IYRFs, delegates have sufficiently carried on wide exchanges and discussions on their latest research achievements and shared experiences on river harnessing and basin management from different aspects. Therefore, the IYRFs have promoted the river basin management and scientific researches for keeping healthy lives of the rivers actively. All the scientific and technological literatures ( proceedings of IYRF, etc. ) published by IYRF, have been totally accepted for inclusion in the Conference Proceedings Citation Index ( CPCI - S, formerly called ISTP) and can be used for reference to managers and researchers engaged in river basin management and scientific research on water conservancy all over the world. The central theme of the 4th IYRF is ecological civilization and river ethics. Nine sub - themes have been convened as: ( 1 ) social and environmental impact of climate change; (2) climate change and sustainable water resources management; (3) cases of watershed rehabilitation; (4) scientific meanings of ecological civilization, pathway and key methodologies of river restoration; (5) ecological civilization, modern river basin management and restoration; (6) river ethics and healthy life of rivers; (7) application of experiences and new technologies of water resources management; (8) sediment management of high silt - laden rivers and reservoirs; and (9) water right transfer, water safety, water environment, water market and water saving. The Forum also arranges 10 special sessions hosted jointly by YRCC, governments of some countries and famous international organizations including WWF Session: Master Plan towards Integrated River Basin Management; International High - level Forum of River Basin Management; High - level Dialogue on Sino- EU River Basin Management; Sino -Australian Cooperation Project Session; Sino -Hungarian Water Resources Session; INBO Special Session; The 24th Sino -Japanese Water Resources Communication Meeting; UNESCO Special Session; GWP Yellow River Session: Water Allocation and Water Diversion Project in the Yellow River Basin, etc. The Organizing Committee of the 4th IYRF has received more than 650 papers. Reviewed by the Technical Committee, the abstracts of 448 papers were finally collected into the Technical Paper Abstracts of the 4th IYRF, and 289 full papers were further selected into the Proceedings and published after the Forum, and will be applied for CPCI - S.

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### 内容概要

本套书是第四届黄河国际论坛的论文集。

本套书围绕“生态文明与河流伦理”这一主题，共同研究探讨河流开发与保护、流域生态构建、水资源可持续利用等重大问题。

本届论坛与前三届黄河国际论坛相比，内容更为丰富、形式更为多样，不仅全方位展示出中国水利和黄河流域管理所取得的成就，还将就河流管理的焦点、难点问题进行深入探讨，以期建立更为广泛的国际合作和交流机制。

本套书共分五册，为英文版。

书籍目录

Volume Keynote Speeches River Ethics The Flow and Sediment Transport Coupling Regulation on the Yellow River The Effect Analysis of Water Regulation for the Yellow River Estuary Delta Ecosystem Researches and Practices on River Ethics, Ecological Civilization and Keeping Healthy Life of the Yellow River Experiences with Artificial Recharge of Groundwater in the Netherlands Strategies and Scientific Issues for the Yellow River Management Promoting Sustainable River Basin Development through Ecosystem - based IRBM Approach The "Harmony between the Heaven and Human" and the Ecological Protection of Yellow River Simulation of Soil Erosion in the Yellow River Basin River Ethics Oriented to Ecological Civilization A. Social and Environmental Impact of Climate Change Climate Change: Future Water Resources of the Yellow River Forecasting of Climate Changes in the 21st Century and its Influences on River Basin Planning Developing Integrated Basin Information Systems: Improving Knowledge of Water Resources, Environments and their Uses is Necessary for Decision -making and for Sustainable Management Yellow River Breaking into Huai River and Huang - Huai Plain Environment Evolution Impact of Climate Change on Floods in Bengawan Solo River Basin, Indonesia and its Adaptation and Mitigation Measures Hydrologic Effects of Climate and Land Use Change in the Wudinghe River Basin Impacts of Climate Change and Variability on Hydro -climate Regimes of the Yellow River Study on Water Resources Allocation Scheme for Yellow River Basin Groundwater Artificial Recharge Solutions for Integrated Management of Watersheds and Aquifer Systems under Extreme Drought Scenarios Forecasting of Water Level of Qinghai Lake Basing on Statistics Downscaling from Climatic Model Lake Chad: A Study of a Drying Freshwater Body The Study on Economic Operation of Well Groups in Water Source Areas along the Lower Yellow River Development of Flood Monitoring, Forecasting and Warning Technologies in the State Hydrometeorological Service of Ukraine Impact of Climate Change and Economic Development on Water Scarcity in Haihe River Basin An Integrated Distributed - Hydrologic and Watershed - Management Model: A Case Study in the Heshni River Watershed of Southern China The Statistic Analysis on Extreme Air Temperature of Some Cities in the Middle Yellow River Basin B. Climate Change and Sustainable Water Resources Management .....Volume Volume Volume Volume

## 章节摘录

插图：The key problems of many big difficult issues of management and development on the Yellow River are that the river has relatively small amount of runoff with too much sediment load and inconsistent relationship between flow and its sediment concentration. The measures to solve these problems are to increase the water amount or runoff, to carry out the flow and sediment transport coupling regulation. To increase the runoff, there are two ways. The first is to relatively increase water amount, namely to save more water or to reduce the consumption; the second way is to really increase the amount of water for the Yellow River, i.e. to transfer water from other catchments to the Yellow River. Although it is possible to reduce consumption in some extent in the irrigation area of the Yellow River, the possible amount of water to be obtained by saving is far less than the actual demand. The irrigation residual water back to the river is very limited. Furthermore, there is still a long way to go to reach the target of saving water. The general solution to get water from outer basins is to have the south- to- north water transfer projects. But the mid -way and east -way transfer projects did not planed and don' t have the function to supply water to the Yellow River. The west way water transfer project bears this function. But it is now in the proposal making phase. There will be a long waiting time period before the project is put into operation. Also, there will be only part of the increased amount used for mitigating the inconsistent relationship between flow and its sediment concentration. There will be three ways to reduce the sediment load. The first is to carry out comprehensive measures against soil erosion in the Loess Plateau; the second is to reduce sediment entering to the river with the functioning of key water conservation projects; the third way is to take the advantage of the vast floodplains in the Xiaobei trunk section to practice the sediment diversion operation. These three ways together form the three defense lines against sediment. According to "The Yellow River Short -term Key Management and Development Plans" approved by State Council and relevant research, after the planned projects are finished, the amount.

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