

东北水利水电

Water Resources & Hydropower of Northeast China



2023 NO. 1

■ 重力坝基岩深层多滑模型渗透压影响研究与数值分析

■ 嫩江干流江桥站近年来水文特征变化分析

■ 混凝土防渗墙温度应力数值模拟研究

□ 水利部松辽水利委员会 主办

东北水利水电

DONGBEI
SHUILI SHUIDIAN
(月刊)

2023年第1期
1月15日出版
(第41卷总第462期)
1983年创刊

全国优秀科技期刊
中国学术期刊(光盘版)全文收录期刊
中文科技期刊数据库全文收录期刊
万方数据库全文收录期刊
超星期刊域出版平台全文收录期刊
~~~~~

主管单位 中华人民共和国水利部  
主办单位 水利部松辽水利委员会  
编辑出版 《东北水利水电》编辑部  
编委会主任 齐玉亮  
名誉主编 林淀翔  
执行主编 任海霞  
副主编 任海霞 丁元芳  
责任编辑 宋侠飞  
地址 长春市解放大路4188号  
邮政编码 130021  
电话 0431-85607758  
刊号 ISSN 1002-0624  
CN 22-1097/TV  
印刷 长春祥泰彩色印刷厂  
订阅 全国各地邮局  
定价 4.60元  
广告经营许可证:

吉林省工商广字第01091号

## 目 次

### 规划设计

- 高压摆喷防渗墙堤防相关分析及研究 ..... 张淑鹏, 乔永梅(1)  
顶管设计与优化 ..... 李佩南, 阿怀瑾, 张璐(5)

### 工程施工

- 让压型抗滑桩在顺层岩岸坡加固工程中的应用 ..... 林田野(7)  
用丙乳砂浆修复混凝土表面缺陷的施工方法 ..... 辛卓(9)

### 水生态环境

- 辽河干流河流生态需水评估整合计算研究 ..... 于露(10)  
尼尔基公司落实河长制工作探析 ..... 孟德明, 隋媛媛(14)

### 农田水利

- 本溪市农业灌溉用水计量存在问题及对策研究 ..... 杨洪宁(16)  
西辽河流域农业节水灌溉模式及节水分析 ..... 崔新颖(18)

- 东北农村小型水利工程管理探析 ..... 满东华, 李晓东(20)

### 水文水资源

- 嫩江干流江桥站近年来水文特征变化分析 ..... 候松岩, 刘金锋(22)  
推移公式法在资料匮乏地区小流域洪水计算中的应用 ..... 张丽霞, 梁新平(25)

### 水利科研

- 鹅湖泵站湿定子潜水贯流泵装置模型试验研究 ..... 姚国辉, 刘翔, 曾飞(27)  
混凝土防渗墙温度应力数值模拟研究 ..... 杜泽鹏, 孙庆丰(30)

- 不同修复材料对水工结构应用效果的影响 ..... 钟桂清(33)

- 一种基于X型宽尾墩体型参数设计的方法 ..... 陈全宝, 张鹏(37)

- 重力坝基岩深层多滑模型渗透压影响研究与数值分析 ..... 常雪, 蔡宗磊(40)

### 防汛抗旱

- 辽阳县堤防工程安全隐患调查探析 ..... 刘玉龙(45)

### 勘探与测量

- 岩溶地质勘察的物探方法技术研究与应用 ..... 闫占豹, 王海波, 宋伟健, 朱冠宇(48)

### 工程建设与管理

- 地质雷达在混凝土路面无损检测中应用 ..... 郭智阳, 许德鑫, 陈鑫(51)

- 一种高精度倾角仪在坝体监测中的应用 ..... 赵刚, 马畅, 陈静, 王一懿, 肖博文(54)

- 坝体渗流病害成因及防渗关键技术研究 ..... 周俊伶(56)

- 寇河(清河区段)河道整治方案设计 ..... 许驰(59)

- 水利水电工程临时用地有关问题的探讨 ..... 王奎宪(61)

### 水利信息化

- 新时期水利行业事业单位人事管理信息化建设的实践与思考 ..... 王鸿赫(64)

- 松辽委水利信息“一数一源”责任清单编制探索 ..... 刘媛媛(68)

### 封底:洛古河测验

柳恒摄

## CONTENTS

### Planning and design

- Correlation analysis and research of dike with high pressure swing spray cutoff wall ..... *ZHANG Shu-peng, QIAO Yong-mei* (1)  
Pipe jacking design and optimization ..... *LI Pei-nan, A Huai-jin, ZHANG Lu* (5)

### Project construction

- Application of pressure relief anti-slide pile in bedding rock bank slope reinforcement project ..... *LIN Tian-ye* (7)  
Construction method for repairing surface defects of concrete with propyl emulsion mortar ..... *XIN Zhuo* (9)

### Water ecological environment

- Study on integrated calculation of river ecological water demand assessment in Liaohe River Main Stream ..... *YU Lu* (10)  
Analysis on the implementation of River Chief System in Nierji Company ..... *MENG De-ming, SUI Yuan-yuan* (14)

### Farmland conservancy

- Study on problems and countermeasures of agricultural irrigation water metering in Benxi City ..... *YANG Hong-ning* (16)  
Agricultural water-saving irrigation model and water-saving analysis in West Liaohe River Basin ..... *CUI Xin-ying* (18)  
Analysis on management of small water conservancy projects in rural of Northeast China ..... *MAN Dong-hua, LI Xiao-dong* (20)

### Hydrology and water resources

- Analysis on change of hydrological characteristics of Nenjiang River Main Stream Jiangqiao Station in recent years ..... *HOU Song-yan, LIU Jin-feng* (22)  
Application of inference formula method in flood calculation of small watershed in data deficient area ..... *ZHANG Li-xia, LIANG Xin-ping* (25)

### Water study

- Model test of wet-stator submersible through-flow pump at Ehu Pump Station ..... *YAO Guo-hui, LIU Xiang, ZENG Fei* (27)  
Numerical simulation study of temperature stress in concrete cutoff wall ..... *DU Ze-peng, SUN Qing-feng* (30)  
Influence of different repair materials on application effect to hydraulic structure ..... *ZHONG Gui-qing* (33)  
A design method based on the shape parameters of X type broad-tail pier ..... *CHEN Quan-bao, ZHANG Peng* (37)  
Study and numerical analysis on influence of deep multi-slip model on seepage pressure of gravity dam bedrock ..... *CHANG Xue, CAI Zong-lei* (40)

### Flood control and drought relief

- Investigation and analysis of hidden danger in Liaoyang County Dike Project ..... *LIU Yu-long* (45)

### Survey and measurement

- Research and application of geophysical method and technology in Karst geological exploration ..... *YAN Zhan-bao, WANG Hai-bo, SONG Wei-jian, ZHU Guan-yu* (48)

### Project construction and management

- Application of geological radar in nondestructive testing of concrete pavement ..... *GUO Zhi-yang, XU De-xin, CHEN Xin* (51)  
Application of a high precision dipmeter in dam monitoring ..... *ZHAO Gang, MA Chang, CHEN Jing, WANG Yi-yi, XIAO Bo-wen* (54)  
Study on causes of seepage disease and key technologies of seepage prevention in dam body ..... *ZHOU Jun-ling* (56)  
River regulation scheme design of Kouhe River (Qinghe river section) ..... *XU Chi* (59)  
Discussion on temporary land use for water conservancy and hydropower projects ..... *WANG Kui-xian* (61)

### Water information

- Practice and thinking on informatization construction of personnel management of water conservancy industry institutions in the new era ..... *WANG Hong-he* (64)  
Exploration on compilation of "One Count one Source" responsibility list for water conservancy information of Songliao Committee ..... *LIU Yuan-yuan* (68)

### SAPONSOR

Song-Liao Water Resources Commission  
Ministry of Water Resources, P.R.China

### ADDRESS

4188Jiefang Road Changchun, P.R.China

### CODE NO.

ISSN 1002-0624  
CN 22-1097/TV

TEL. (0431)85607758

### EDITOR AND PUBLISHER

Magazine Office of 《Water Resources  
and Hydropower of Northeast China》

### EXECUTIVE EDITOR-IN-CHIEF

REN Hai-xia

### POST CODE 130021

### E-mail

dbsd@slwr.gov.cn