

ISSN 1002-0624

# 东北水利水电

Water Resources & Hydropower of Northeast China



DRSISD

2015/NO. 5

■ 石龙水电站引水发电系统布置设计

■ 新疆某大型输水工程湿陷性黄土地基处理  
方案分析

■ 降雨径流预报方法在两江水电站的应用

□ 水利部松辽水利委员会 主办

万方数据

**CONTENTS**

**Planning and design**

- Layout design of water division and power generation system for Shilong hydropower station  
.....WANG Chao, CHEN Li-qiu, CHEN Jun-jie(1)
- Scheme analysis of collapsible loess foundation treatment for canal section of some a large water conveyance project in Xinjiang  
.....QIAO Shi-jun(4)
- Analysis of water hammer numerical simulation for Taipingwan water supply project.....LUAN Jun-liang, FU Shi-hong, SU Qi(6)
- River closure design for second-stage of Dadingzishan navigation and hydropower project  
.....CAI Guang-zhe, HUANG Xiang-jun, ZHANG Yu-hao, HUANG Yuan-ze(8)
- Layout and design of metal structure equipment for tail gate chamber of Huanggou pumped storage power station  
.....ZHOU Bing, XIE Zhen-feng, YUAN-Wei(11)
- Application of hydraulic elevator dam technology in water storage project design.....CHEN Wen-xi, QI Qi, GUO Rui-peng(13)
- Application of comprehensive energy dissipater in spillway design.....WANG Ming-lei(15)
- Design scheme of deformation monitoring used the surveying robot for rockfill dam of Sanzuodian reservoir.....HAO Shu-rong(18)
- Preliminary selection of specific speed and specific speed coefficient in condition of water pump of power station  
.....LI Yong-heng, MA Jing-tong, LI Zhe, MEN Fei(20)
- Design and effect analysis of dam curtain grouting for Shenwo reservoir.....KONG Ling-zhu, SUI Li-jun(22)

**Project construction**

- Grouting construction technology of division tunnel for Jin'anqiao hydropower station.....ZHU Xing-guang(24)
- Sediment cleaning and treatment scheme in water intake of Xinlicheng reservoir.....YANG Min-jun, LI Gui-juan(28)

**Hydrology and water resources**

- Application of rainfall-runoff forecast method in Liangjiang hydropower station  
.....LIU Jian-jun, HUANG Jian-hui, WANG Cheng-xiong, ZHANG Yong-sheng(31)
- Application and analysis of GFS forecast result for cascade power stations in Hunjiang river basin  
.....LI Fu-wei, WANG Ben-de, YUAN Jing-xuan(34)
- Analysis of control points of flow measurement precision by float method in mountain regions of Liaoning Eastern  
.....WANG Shu-guang(37)
- Analysis of flood period division used accumulation precipitation for Liaoning province.....DING Yang(39)
- Analysis of hydrology situation for Huangpuchuan river basin.....ZHAO Mei, LIU Yu-dou, CUI Dian-he(41)

**Hydraulic study**

- Test study on anion determination in water using ion chromatograph.....MAO Yu-feng(43)
- Nitrite nitrogen content situation and its influence factor in groundwater of Dalian city.....SUN Da-ming(46)
- Study on BP neural network model to monitor dam deformation in Matlab simulation platform.....SHINing-yan(49)

**Water ecological environment**

- Comprehensive treatment of water environment in Dazhang ecological demonstration area of main stream of Liaohe river  
.....FU Xin(51)
- Present situation analysis of wastewater treatment and reclaimed water reuse in Anshan city.....SU Hao(53)
- Existing problem and countermeasure of constructed wetland construction in north China.....XIONG Shou-cun, LI Hui(55)
- Management and protection discussion on ecological vegetation of constructed wetland in Shifoshi reservoir  
.....TIAN Ying-long, TIAN Nan(57)

**Flood control and drought relief**

- Waterlogging risk evaluation of urban drainage system based on variable fuzzy cluster.....ZHANG Hong(60)
- Exploration of flood simulation forecast and dispatching for Taizihe river basin.....YU Yang(63)
- Construction effect of non-engineering measures for mountain torrent disaster in Yilan county.....ZHANG Li-jun(65)

**Farmland conservancy**

- Analysis of development scale of agricultural irrigation area in Liaoning province.....WANG Xin(67)

**Water information**

- Discussion on integrating lightning protection in automatic system of ultra-long hydraulic tunnel.....LI Fei(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》

**EDITOR IN CHIEF**

LIN Dian-xiang

**POST CODE 130021**

**E-mail**

dbsd@slwr.gov.cn

# 东北水利水电

DONGBEI  
SHUILI SHUIDIAN  
(月刊)

2015年第5期  
5月15日出版  
(第33卷总第370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

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》杂志社  
编委会主任 党连文  
社长 赵玉江  
主编 林淀翔  
副主编 任海霞 师福东  
责任编辑 师福东  
地址 长春市解放大路4188号  
邮政编码 130021  
电话 0431-85607758  
邮箱 dbasd@slwr.gov.cn  
刊号 ISSN 1002-0624  
CN 22-1097/TV  
印刷 长春工程学院印刷厂  
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

- 石龙水电站引水发电系统布置设计.....王 超,陈立秋,陈俊杰(1)
- 新疆某大型输水工程渠段湿陷性黄土地基处理方案分析.....乔世军(4)
- 太平湾供水工程水锤数值模拟分析.....梁俊亮,伏世红,宿 祺(6)
- 大顶子山航电枢纽工程二期截流设计  
.....蔡光哲,黄相军,张雨柔,黄远泽(8)
- 荒沟抽水蓄能电站尾闸室金属结构设备布置与设计  
.....周 兵,谢振峰,袁 伟(11)
- 合页活动坝技术在蓄水工程设计中的应用.....陈文熙,齐 奇,郭瑞鹏(13)
- 综合消能工在溢洪道设计中的应用.....王明磊(15)
- 三座店水库堆石坝测量机器人变形监测设计方案.....郝淑荣(18)
- 电站水泵工况比转速和比速系数的初步选择  
.....李永恒,马经童,李 哲,门 飞(20)
- 参窝水库坝体帷幕灌浆设计和效果分析.....孔令柱,隋丽君(22)

### 工程施工

- 金安桥水电站导流洞灌浆施工技术.....朱兴广(24)
- 新立城水库取水口底泥清理与处理方案.....杨敏军,李桂娟(28)

### 水文水资源

- 降雨径流预报方法在两江水电站的应用  
.....刘建军,黄建辉,王成雄,张永胜(31)
- 浑江流域梯级电站 GFS 预报结果应用分析.....李福威,王本德,袁晶瑄(34)
- 辽东山区浮标法测流精度控制要点分析.....王曙光(37)
- 利用累积降水量分析辽宁省汛期分期.....丁 阳(39)
- 皇甫川流域水文情况分析.....赵 梅,刘五斗,崔殿河(41)

### 水利科研

- 离子色谱仪测定水中阴离子的实验研究.....毛玉凤(43)
- 大连市地下水中硝酸盐氮含量状况及影响因素.....孙大明(46)
- Matlab 仿真平台下大坝位移 BP 神经网络模型研究.....师宁禹(49)

### 水生态环境

- 辽河干流大张生态示范区水环境综合整治.....付 鑫(51)
- 鞍山市污水处理及再生水回用现状分析.....苏 浩(53)
- 北方人工湿地建设存在问题及对策.....熊守存,李 辉(55)
- 石佛寺水库人工湿地生态植被管护探析.....田应龙,田 楠(57)

### 防汛抗旱

- 基于可变模糊聚类的城市排水系统内涝风险评估.....张 弘(60)
- 太子河流域洪水模拟预报调度探索.....于 洋(63)
- 依兰县山洪灾害防治非工程措施建设.....张立军(65)

### 农田水利

- 辽宁省农业灌溉面积发展规模分析.....王 鑫(67)

### 水利信息化

- 特长水工隧洞自动化系统集成防雷保护探析.....李 飞(68)

封底:田埂

孟令钦 摄



DONGBEISHUILISHUIDIAN



# 东北水利水电

主办单位：水利部松辽水利委员会  
编辑出版：《东北水利水电》杂志社  
地 址：长春市解放大路4188号  
邮政编码：130021  
电子信箱：dbsd@slwr.gov.cn  
(第三十三卷)总第三七零期  
邮发代号：12-403 定价：4.60元  
CN 22-1097/TV

ISSN 1002-0624



9 771002 062006

