



全国中文核心期刊  
中国科技核心期刊  
中国科学引文数据库来源期刊

ISSN 1000-0852

CN 11-1814/P

# 水文

JOURNAL OF CHINA HYDROLOGY

## 2013

第33卷 第1期

VOL.33 No.1

中华人民共和国水利部 主管  
水利部水文局 主办

SHUI WEN

ISSN 1000-0852



9 771000 085137

万方数据

# 水 文

第33卷 第1期(总第193期) 2013年2月25日出版(双月刊)

## 目 次

### 理论研究

- 新安江模型参数多目标优化研究 ..... 郭俊,周建中,邹强,宋利祥,张勇传(1)  
基于参数优化的集对分析月径流预测 ..... 刘冀,徐刚,彭涛,明波(8)  
沙地地区水文过程及模拟——以秃尾河流域为例 ..... 范念念,吴保生,田富强(12)  
皮尔逊-Ⅲ型分布曲线的变步长数值积分 ..... 刘仕平,王文川(18)

### 技术应用

- HadCM3 模式下钱塘江流域设计暴雨估算 ..... 张徐杰,林盛吉,马冲,高希超,许月萍(21)  
海河流域严重干旱 500hPa 信号场异常信号分析 ..... 严小林,杨扬,黄嘉佑,鲍振鑫(27)  
北京地区近 53 年最大 1 小时降雨强度的时空变化规律 ..... 钟一丹,贾仰文,李志威(32)  
东江三大水库联合调度下惠州河段水温变化响应研究 ..... 胡培,陈晓宏(38)  
赤水河上游流域水化学变化与离子成因分析 ..... 耿金,陈建生,张时音(44)  
咸淡水混合灌溉技术应用与实践 ..... 王春泽,张新龙,乔光建(51)  
苏锡常地区地下水禁采效应分析与保护策略探讨 ..... 蒋咏,杨桂莲,常本春,章树安(58)  
基于气候重建资料及均生函数-最优子集回归模型的降水预测 ..... 马龙,刘廷玺,冀鸿兰,高瑞忠(63)  
多隐层 BP 神经网络模型在径流预测中的应用 ..... 崔东文(68)  
基于机器学习的水位流量关系模型参数估计 ..... 江竹,宋文武(74)  
应用 matlab 求解小流域推理公式的方法 ..... 田景环,梁文涛(79)

### 区域水文

- 石羊河流域蒸发量变化特征及影响因素分析 ..... 刘蕊蕊,陆宝宏,许丹,张杰,翟梦恩,常娜,李莉会(82)  
南四湖流域水资源特性研究 ..... 孙淑云,张国玉(90)  
武江“2006·07”洪水的分析与研究 ..... 陈斯伦,朱维科(94)

### 消息报道

- 《中国防汛抗旱》杂志征订、征稿启事 ..... (62)

# JOURNAL OF CHINA HYDROLOGY

(Since 1956, Bimonthly)

Vol.33 No.1(Total No.193) Feb. 25, 2013

---

## CONTENTS

- Study on Multi-objective Parameter Optimization of Xinanjiang Model  
..... *GUO Jun, ZHOU Jianzhong, ZOU Qiang, et al* (1)
- Monthly Runoff Prediction Based on Set Pair Analysis with Parameters Optimization  
..... *LIU Ji, XU Gang, PENG Tao, et al* (8)
- Hydrological Processes and Simulation in Sand Land: A Study Case of Tuwei River Basin  
..... *FAN Niannian, WU Baosheng, TIAN Fuqiang* (12)
- A Varying-step Algorithm for Numerical Integration of Pierson III Distribution  
..... *LIU Shiping, WANG Wenchuan* (18)
- Estimation of Design Storms under HadCM3 Model for Qiantangjiang River Basin  
..... *ZHANG Xujie, LIN Shengji, MA Chong, et al* (21)
- Anomalies of 500hPa Signal Field during Meteorological Droughts in Haihe River Basin  
..... *YAN Xiaolin, YANG Yang, HUANG Jiayou, et al* (27)
- Spatial and Temporal Changes of Maximum 1h Precipitation Intensity in Beijing Region in Last 53 Years  
..... *ZHONG Yidan, JIA Yangwen, LI Zhiwei* (32)
- Research on Joint Ecological Operation of Reservoirs Based on Water Temperature: A Case Study in Huizhou  
Reach of Dongjiang River ..... *HU Pei, CHEN Xiaohong* (38)
- Analysis of Hydro-chemical Changes and Genesis of Major Ions in Upper Reach of Chishui River  
..... *GENG Jin, CHEN Jiansheng, ZHANG Shiyin* (44)
- Application and Practice of Salt-fresh Water Mixed Irrigation Technology  
..... *WANG Chunze, ZHANG Xinlong, QIAO Guangjian* (51)
- Effect Analysis and Protection Strategy after Banning Groundwater Pumping in Suzhou-Wuxi-Changzhou Area  
..... *JIANG Yong, YANG Guilian, CHANG Benchun, et al* (58)
- Precipitation Short-term Forecasting Based on Climate Reconstruction Data and Mean Generating Function-optimal  
Subset Regression (MGF-OSR) Prediction Model ..... *MA Long, LIU Tingxi, JI Honglan, et al* (63)
- Application of Hidden Multilayer BP Neural Network Model in Runoff Prediction ..... *CUI Dongwen* (68)
- Parameter Estimation of Stage-discharge Relationship Based on Machine Learning  
..... *JIANG Zhu, SONG Wenwu* (74)
- Application of Matlab in Rational Formula for Watersheds ..... *TIAN Jinghuan, LIANG Wentao* (79)
- Changes of Evaporation and Its Influencing Factors in Shiyanghe River Basin  
..... *LIU Ruirui, LU Baohong, XU Dan, et al* (82)
- Research on Characteristics of Water Resources in Nansihu Lake Basin ..... *SUN Shuyun, ZHANG Guoyu* (90)
- Analysis of "2006·07" Flood in Wujiang River Basin ..... *CHEN Silun, ZHU Weike* (94)