



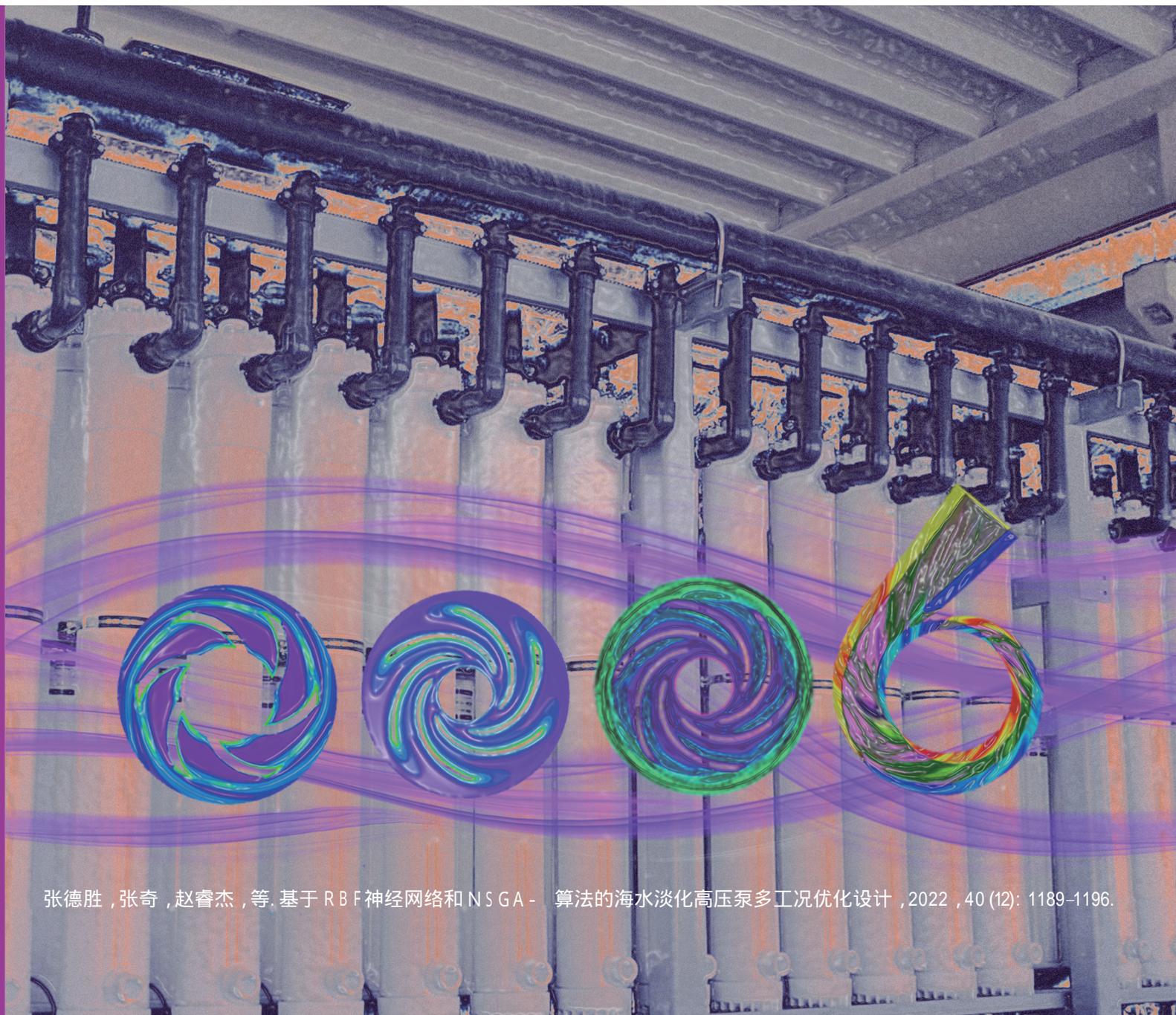
ISSN 1674-8530
CN 32-1814/TH
CODEN PAJIE2

排灌机械工程学报

Journal of Drainage and Irrigation Machinery Engineering

江苏省教育厅 主管

江苏大学 主办



张德胜, 张奇, 赵睿杰, 等. 基于RBF神经网络和NSGA-III算法的海水淡化高压泵多工况优化设计, 2022, 40 (12): 1189-1196.



CSCD核心库来源期刊
全国中文核心期刊
中国科技核心期刊
中国农林核心期刊

中国·镇江
Zhenjiang, China

2022年12月

第40卷 第12期
Vol.40 No.12

目次

● 泵理论与技术

栏目主编: 王福军 袁建平

基于 RBF 神经网络和 NSGA-Ⅱ 算法的海水淡化高压泵多工况优化设计

张德胜, 张奇, 赵睿杰, 祁炳, 沈熙 (1189)

高含沙水流混流式水轮机磨蚀的数值预测与分析

孙国勇, 张逸军, 张润强, 王玉川, 毛秀丽 (1197)

基于修正 PANS 模型的轴流泵空化特性数值模拟

俞芸芸, 周大庆, 于安, 刘佳佳 (1204)

立式管道离心泵多工况压力脉动试验

陈金维, 裴吉, 王文杰, 邓起凡, 王中升 (1212)

弯管安装角对管道泵内压力脉动影响的数值研究

王业富, 王洋, 宋建龙, 金实斌, 公续然, 朱芮, 曹璞钰 (1219)

● 水利水电工程

栏目主编: 戴会超 仇宝云

基于流体体积模型的叶轮宽径比对水车性能的影响

李可欣, 郑源, 胡雪原 (1227)

基于 NSGA-Ⅲ 算法与 TOPSIS 决策下的区域水资源多目标优化配置

赵钦, 白清俊, 聂坤堃, 王晗, 曾雪梅 (1233)

弹簧板式明渠测流装置的水力特性

万里,李永业,张港,蔡鸿儒,张雪兰,杨小妮(1241)

● 流体工程

栏目主编:王正伟 林建忠

泵后管线先降后升的长距离输水系统水锤防护

杜畅,刘喜元,张健,汪宝罗,陈旭云,俞晓东(1248)

双曲面搅拌器翼型及安装高程对搅拌性能的影响

石俊峰,郑源,张海晟,郭绘娟(1254)

节能保质的卷盘式喷灌机双喷枪技术

刘一川,张锐,朱德兰,葛茂生,高飞,赵海青(1261)

● 农业水土工程

栏目主编:康绍忠 许迪

微囊藻衰败对沉积物中锑和砷迁移的影响

黄天寅,朱甜(1268)

地下水埋深和施氮量对冬小麦灌浆及水氮利用的影响

白芳芳,李平,乔冬梅,齐学斌,郭魏,马灿灿,杜臻杰(1275)

覆砂下微咸水盐度和钠吸附比对水盐入渗及分布的影响

董立霞,谭军利,李森,李存云,王西娜(1284)

苏南丘陵地区茶树蒸散发估算模型的适用性评估

倪雨欣,张川,闫浩芳,张文程,周俊安,薛润(1290)

● 2022 年总目次

(I)

CONTENTS

- Multi-condition optimization design of seawater desalination high-pressure pump based on RBF neural network and NSGA-II genetic algorithm
..... ZHANG Desheng, ZHANG Qi, ZHAO Ruijie, QI Bing, SHEN Xi(1189)
- Numerical prediction and analysis of abrasion in a Francis turbine with high sediment concentration
..... SUN Guoyong, ZHANG Yijun, ZHANG Runqiang, WANG Yuchuan, MAO Xiuli(1197)
- Cavitation characteristics of axial-flow pump based on modified partially-averaged Navier-Stokes model
..... YU Yunyun, ZHOU Daqing, YU An, LIU Jiajia(1204)
- Experiment of pressure pulsation of vertical inline centrifugal pump under different working conditions
..... CHEN Jinwei, PEI Ji, WANG Wenjie, DENG Qifan, WANG Zhongsheng(1212)
- Numerical study on influence of elbow installation angle on pressure fluctuation in pipeline pump
..... WANG Yefu, WANG Yang, SONG Jianlong, JIN Shibin, GONG Xuran, ZHU Rui, CAO Puyu(1219)
- Effect of width-to-diameter ratio of impellers on waterwheel performance based on volume of fluid model
..... LI Kexin, ZHENG Yuan, HU Xueyuan(1227)
- Multi-objective optimization allocation of regional water resources based on NSGA-III algorithm and TOPSIS decision
..... ZHAO Qin, BAI Qingjun, NIE Kunkun, WANG Han, ZENG Xuemei(1233)
- Hydraulic characteristics of spring plate type measuring device in open channel
..... WAN Li, LI Yongye, ZHANG Gang, CAI Hongru, ZHANG Xuelan, YANG Xiaoni(1241)
- Long-distance water hammer protection of pipeline after pump being first lowered and then raised
..... DU Chang, LIU Xiyuan, ZHANG Jian, Wang Baoluo, CHEN Xuyun, YU Xiaodong(1248)
- Influence of airfoil and installation elevation of hyperboloid agitator on mixing performance
..... SHI Junfeng, ZHENG Yuan, ZHANG Haisheng, GUO Huijuan(1254)
- Double spray guns technology of energy saving and quality guaranteed hard hose traveler
..... LIU Yichuan, ZHANG Rui, ZHU Delan, GE Maosheng, GAO Fei, ZHAO Haiqing(1261)
- Effects of *Microcystis aeruginosa* decay on migration of antimony and arsenic in surface sediments
..... HUANG Tianyin, ZHU Tian(1268)
- Effects of groundwater depth and nitrogen application rate on grain filling and water and nitrogen use efficiency of winter wheat
..... BAI Fangfang, LI Ping, QIAO Dongmei, QI Xuebin, GUO Wei, MA Cancan, DU Zhenjie(1275)
- Effect of salinities and sodium adsorption ratio of irrigation water on infiltration and distribution of water and salt under gravel-sand mulching
..... DONG Lixia, TAN Junli, LI Miao, LI Cunyun, WANG Xina(1284)
- Applicability evaluation of tea plant evapotranspiration models in hilly area of southern Jiangsu Province
..... NI Yuxin, ZHANG Chuan, YAN Haofang, ZHANG Wencheng, ZHOU Junan, XUE Run(1290)