

江苏省一级期刊
全国中文核心期刊
中国科技核心期刊
RCCSE中国核心学术期刊

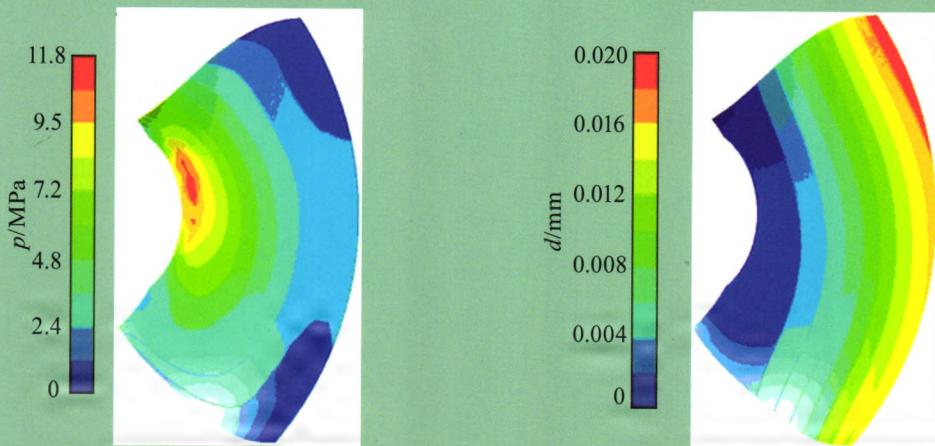
ISSN 1674-8530

CN 32-1814/TH

CODEN PAJIE2

排灌机械工程学报

Journal of Drainage and Irrigation Machinery Engineering



2013

第31卷 第9期
Vol.31 No.9

中国·镇江
Zhenjiang China

中国农业机械学会排灌机械分会
江苏大学流体机械工程技术研究中心

主办

中国农业工程学会农业水土工程专业委员会
上海凯士比泵有限公司

协办

目 次

● 泵理论与技术

栏目主编:王福军 刘厚林

基于流固耦合的轴流泵叶片应力特性

施卫东,王国涛,张德胜,蒋小平,徐燕(737)

斜式轴流泵装置进水流道的正交优化设计

黄健勇,张飞珍,张浩,杨晓霞,张睿(741)

叶轮注塑成型模拟及工艺参数优化

王洋,王振伟,王维军,叶道星(747)

基于 ESO 的罗茨泵叶轮拓扑优化设计

陈小明,赖喜德,张翔,周翔(752)

HD型石油化工流程泵内部固液两相分布规律

刘宜,蒋跃,韩正杰(758)

基于三元设计及数值试验轴流泵抗空化性能

靳栓宝,王永生(763)

● 水利水电工程

栏目主编:戴会超 仇宝云

导流锥型式对低扬程泵站水力性能的影响

周佩剑,王福军,张志民(768)

水泵水轮机临界空化系数的数值预测

郝宗睿,刘锦涛,王乐勤(774)

期刊基本参数:CN32 - 1814/TH * 1982 * m * A4 * 96 * zh * P * ¥18.00 * 3000 * 17 * 2013 - 09 * n

水平轴海流能水轮机的多目标优化设计

郭鹏程, 朱国俊, 罗兴铸(778)

● 流体工程

栏目主编: 曹树良 林建忠

涡流发生器对试验尾水管性能改善作用分析

田晓庆, 郑源, 潘华辰, 孙斌(783)

螺旋槽干气密封热力耦合流场近似计算及分析

丁雪兴, 苏虹, 张海舟, 赵芳, 张伟政(788)

旋转锥形射流的参数影响与试验研究

李光荣, 葛英飞, 郑勇, 薛小强(794)

● 农业水土工程

栏目主编: 康绍忠 许迪

美国密西西比河下游水体含氮量预报方法

严宝文, Mark D. Tomer, 温得平(800)

不同配套产品对涌泉根灌土壤湿润体特性影响

陈俊英, 吴普特, 朱德兰, 张智韬, 樊晓康(805)

盐碱地排水沟水体盐分变化规律

潘延鑫, 罗纨, 贾忠华, 李进, 陈远(811)

预处理秸秆对土壤蒸发及秸秆分解率的影响

王增丽, 王珍, 冯浩(816)

变化环境下农业需水量演变趋势及驱动力

李萍, 魏晓妹(822)

执行编辑 谈国鹏

特约编辑 李文广

插图绘制 延晓丹

英文校核 潘中永

CONTENTS

- Stress characteristics in blades of axial-flow pump based on fluid-structure interaction
..... Shi Weidong, Wang Guotao, Zhang Desheng, Jiang Xiaoping, Xu Yan(737)
- Design optimization of inlet conduit in slanted axial-flow pump installation by orthogonal array experiment
..... Huang Jianyong, Zhang Feizhen, Zhang Hao, Yang Xiaoxia, Zhang Rui(741)
- Injection molding simulation of plastic impeller and process parameters optimization
..... Wang Yang, Wang Zhenwei, Wang Weijun, Ye Daoxing(747)
- Topological optimization design of Roots pump lobe with ESO method
..... Chen Xiaoming, Lai Xide, Zhang Xiang, Zhou Xiang(752)
- Solid volume concentration distribution of solid-liquid two-phase flow in HD type petrol-chemical process pump
..... Liu Yi, Jiang Yue, Han Zhengjie(758)
- 3D design of axial-flow pump and numerical prediction of its cavitaion performance
..... Jin Shuanbao, Wang Yongsheng(763)
- Effects of guide cone configuration on hydraulic performance of low-head pumping station
..... Zhou Peijian, Wang Fujun, Zhang Zhimin(768)
- Numerical prediction of critical cavitation number in pump-turbine
..... Hao Zongrui, Liu Jintao, Wang Leqin(774)
- Multi-objective optimization design of horizontal-axis marine current turbine
..... Guo Pengcheng, Zhu Guojun, Luo Xingqi(778)
- Analysis on improvement of model draft tube by vortex-generators
..... Tian Xiaoqing, Zheng Yuan, Pan Huachen, Sun Bin(783)
- Approximately analytical solutions of thermal-mechanical coupling flow field in spiral-grooved dry gas seals
..... Ding Xuexing, Su Hong, Zhang Haizhou, Zhao Fang, Zhang Weizheng(788)
- Effects of nozzle parameters on rotating conical abrasive jet and experiments
..... Li Guangrong, Ge Yingfei, Zheng Yong, Xue Xiaoqiang(794)
- Method for predicting nitrogen concentration in water on lower Mississippi River in USA
..... Yan Baowen, Mark D. Tomer, Wen Deping(800)
- Effect of sleeve length on characteristics of wetted front during bubble-root irrigation
..... Chen Junying, Wu Pute, Zhu Delan, Zhang Zhitao, Fan Xiaokang(805)
- Variation characteristics of salinity in water of drainage ditches in saline lands
..... Pan Yanxin, Luo Wan, Jia Zhonghua, Li Jin, Chen Yuan(811)
- Effects of pretreated straws on soil evaporation and straw decomposition rate
..... Wang Zengli, Wang Zhen, Feng Hao(816)
- Evolutionary tendency of agriculture water requirement and its driving force under changing environment
..... Li Ping, Wei Xiaomei(822)