

全 国 中 文 核 心 期 刊
中 国 科 技 核 心 期 刊
美国《剑桥科学文摘》(CSA)收录期刊
波兰《哥白尼索引》收录期刊
美国《乌利希期刊指南》收录期刊

ISSN 1009-640X
CODEN SSGXAH

水利水运工程学报

HYDRO-SCIENCE AND ENGINEERING

2

2012



NHRI
Since 1935

南京水利科学研究院
NANJING HYDRAULIC RESEARCH INSTITUTE

HYDRO-SCIENCE AND ENGINEERING

(Bimonthly)

Apr. 2012

No. 2 (Total No. 132)

CONTENTS

Numerical simulation of vibration for Taizhou Bridge middle tower caisson	CHEN Ce(1)
Numerical analysis of load inclination influence on the bearing behavior of large-diameter long pile	WANG Xiao-bing, WEN Song-lin, XU Wen-qiang, CHAI Hong-tao(8)
Experimental study on hydrodynamic loads of the pervious slabs in plunge pool	XU Xiang, YANG Min(15)
Influence of cross current on ship in bridge navigable waters	LIU Xiao-ping, LI Ming, FANG Song-sen, LIN Ji-da(21)
The interior layout research of large-scale reclaiming projects in middle and low shallow beaches in tidal estuary	CUI Dong, LIU Xin-cheng, YU Xiang-cheng(27)
Experimental studies on local scour mechanism of cylinder bridge piers	ZHANG Xin-yan, LV Hong-xing, SHEN Bo(34)
Preliminary study on the variation law of siltation thickness of navigable shoals	YOU Xing-ying, TANG Jin-wu, WENG Zhao-hui(42)
An analysis of the macro-and-micro properties of cement-soil under NaCl erosion environment	ZHANG Hua-jie, HAN Shang-yu, JIANG Min-min, HONG Bao-ning(49)
An analysis of sediment sudden siltationin in Yamen waterway in storm condition	HOU Jia-yan, HE Jie, XIN Wen-jie(55)
A study of the key problem of optimum hydraulic design for a pump system with low head	XU Lei, LU Lin-guang, LIANG Jin-dong, WANG Gang, DONG Lei(62)
Back silting analysis of the trial dredged-trough for immersed tube tunnel of Hong Kong-Zhuhai-Macao Bridge	XIN Wen-jie, JIA Yu-shao, HE Jie(71)
Impacts of the Hong Kong-Zhuhai-Macao Bridge on flow environment of Lingdingyang estuary	XU Qun, MO Si-ping, JI Rong-yao, XIN Wen-jie, WANG Chi(79)
Numerical simulation of hydrodynamic impact of Hong Kong-Zhuhai-Macao Bridge on Pearl River estuary	HE Jie, XIN Wen-jie, JIA Yu-shao(84)
A key problem of physical model design for tidal current around Hong Kong-Zhuhai-Macao Bridge	XU Qun, MO Si-ping, JI Rong-yao, WANG Chi(91)
An analysis of waterway processes near the Hong Kong-Zhuhai-Macao Bridge	YING Qiang , XIN Wen-jie , YUAN Sheng-ying (97)
NEWS	(104)

水利水运工程学报

(双月刊)

2012年4月

第2期(总第132期)

目 次

- 泰州大桥中塔沉井振动数值模拟 陈 策(1)
荷载倾角对大直径长桩承载特性的影响分析 王孝兵, 文松霖, 徐文强, 柴洪涛(8)
挑跌流水垫塘透水底板水动力特性试验研究 许 翔, 杨 敏(15)
桥区河段横流对船舶航行的影响 刘晓平, 李 明, 方松森, 林积大(21)
潮汐河口大型中低滩促淤工程内部布局研究 崔 冬, 刘新成, 俞相成(27)
圆柱桥墩局部冲刷机理试验研究 张新燕, 吕宏兴, 沈 波(34)
浅滩碍航淤积厚度变化规律初步研究 由星莹, 唐金武, 翁朝晖(42)
NaCl 侵蚀环境下水泥土的宏观特性分析 张华杰, 韩尚宇, 蒋敏敏, 洪宝宁(49)
崖门出海航道大风天泥沙骤淤分析 侯佳艳, 何 杰, 辛文杰(55)
低扬程泵装置优化水力设计的关键问题 徐 磊, 陆林广, 梁金栋, 王 刚, 董 雷(62)

港珠澳大桥试验研究专题

- 港珠澳大桥沉管隧道试挖槽回淤特征分析 辛文杰, 贾雨少, 何 杰(71)
港珠澳大桥对伶仃洋河口潮流环境的影响 徐 群, 莫思平, 季荣耀, 辛文杰, 王 驰(79)
港珠澳大桥对珠江口水域水动力影响的数值模拟 何 杰, 辛文杰, 贾雨少(84)
港珠澳大桥潮流物理模型设计的关键问题 徐 群, 莫思平, 季荣耀, 王 驰(91)
港珠澳大桥通航水域航道演变分析 应 强, 辛文杰, 袁胜英(97)

南京水利科学研究院重大成果介绍

- “港工自密实自养护抗裂型耐久混凝土关键技术研究”成果简介 (104)

期刊基本参数:CN32-1613/TV * 1979 * b * A4 * 104 * zh * P * ¥ 12.00 * 900 * 15 * 2012-04