

◆中国科技核心期刊  
◆中国学术期刊(光盘版)入编期刊  
◆中国科技期刊精品数据库收录期刊  
◆中国学术期刊综合评价数据库来源期刊

◆中国核心期刊(遴选)数据库来源期刊  
◆中国期刊全文数据库收录期刊  
◆万方数据-数字化期刊群入网期刊  
◆天津市一级期刊

# 港工技术 Ganggong Jishu

第47卷 第5期 2010年10月

## 目 次

### 海岸动力

MIKE21 HD 计算原理及应用实例 ..... 许 婷(1)

海岸港设计潮位的最大熵分布统计分析 ..... 董 胜,姚艳杰(6)

### 平面工艺

船行波对系泊船的影响 ..... 王亥索,杨兴晏(9)

基于模糊综合评价法的连云港

港主航道通航环境风险评价 ..... 张宝刚,甘浪雄,马丽丽,罗小明(11)

浅谈生态护坡在沿江环境综合整治工程中的应用 ..... 左良栋,谭洪强,周世良(15)

### 结构

小水平力作用下推力桩的三参数拟合计算 ..... 王金海(18)

三峡库区架空直立墩式码头靠泊能力评估研究 ..... 周世良,古西召,陈晓攀,吴飞桥(22)

浅谈 PHC 管桩在吹填区的沉桩施工 ..... 张俊生,孙柯华(27)

### 综合

疏浚工程施工壅沟形成及控制 ..... 王照田(30)

浅谈天津港的纳泥区与泥土利用问题 ..... 侯延祥(33)

散货码头工程的节能措施分析 ..... 王艳欣(36)

深基坑工程预警系统的初步研究 ..... 赵 春,张小平(39)

### 地基基础

非滑道建造海洋钢结构与

地基耦合分析建模技术 ..... 杨公升,周学仲,李淑民,章 青,雷俊杰(42)

改进的 BP 神经网络在路基沉降预测中的应用 ..... 郭亚宇,孙立功,苏兆仁(46)

坦墙上土压力计算探讨 ..... 王 君,刘福臣(51)

### 工程勘察

港口工程 PHC 管桩完整性检测技术分析 ..... 祝 辉,方海东,戴鹏飞,吉同元(54)

GPS-RTK 技术在防波堤施工水下地形测量中的应用分析 ..... 王立强,王立军,马津渤(58)

### 信息

获奖信息三则 ..... 本刊编辑部(61)

封面摄影:乔晓辰

期刊基本参数:CN 12-1220/U\*1964\*b\*16\*64\*zh\*P\*6.00\*3000\*17\*2010-10

## Contents

### Coastal Dynamics

Calculation Principle and Application Example of a Two-dimensional Flow Model-MIKE21 HD .....	Xu Ting(1)
Statistical Analysis of Design Tide Levels for Coastal Ports with Maximum Entropy Distribution .....	Dong Sheng, Yao Yanjie(6)

### Planning and Technology

Effect of Ship-generated Waves on Moored Ships .....	Wang Haisuo, Yang Xingyan(9)
Risk Assessment of the Main Channel	
Navigation Environmental of Lianyungang Port Based on Fuzzy Comprehensive Assessment .....	Zhang Baogang, Gan Langxiong, Ma Lili, Luo Xiaoming(11)
Application of Ecological Revetment in Regulation of River Environment .....	Zuo Liangdong, Tan Hongqiang, Zhou Shiliang(15)

### Structure

Matching of a Laterally-loaded Pile's Performance under Small Load with 3-parameter Theory .....	Wang Jinhai(18)
Study and Assessment on Bearing Capacity of Elevated Wharf with Vertical Abutment in Three Gorges Reservoir Area .....	Zhou Shiliang, Gu Xizhao, Chen Xiaopan, Wu Feiqiao(22)
On Driving of PHC Piles in Reclamation Area .....	Zhang Junsheng, Sun Kehua(27)

### General

The Forming and Control of Furrows in Dredging Work .....	Wang Zhaotian(30)
Application of Mud Disposal	
Area in Tianjin Port .....	Hou Yanxiang(33)
Analysis of Energy-saving Measures in Bulk Terminal Engineering .....	Wang Yanxin(36)
Studies on Perdictive System of Deep Foundation Pits .....	Zhao Chun, Zhang Xiaoping(39)

### Foundation

The Construction of the Non-slide Marine Analysis of Narine Steel Structure and Foundation Modeling Technique .....	Yang Gongsheng, Zhou Xuezhong, Li Shumin, Zhang Qing, Lei Junjie(42)
Application of Improved BP Neural Network in Prediction of Settlement of Roadbed .....	Guo Yazu, Sun Ligong, Su Zhaoren(46)
Discussion on the Soil Pressure on Retaining Wall .....	Wang Jun, Liu Fuchen(51)

### Engineering Investigation

Analysis of Detecting Techniques for PHC Piles	
Integrity in Construction of Port .....	Zhu Hui, Fang Haidong, Dai Pengfei, Ji Tongyuan(54)
Analysis on Application of GPS-RTK Technique in Underwater Topographical Survey for Construction of Breakwater .....	Wang Liqiang, Wang Lijun, Ma Jinbo(58)

### Information

Three Awards .....	Port Engineering Technology Editorial Office(61)
--------------------	--

**Competent Authority:** China Communications Construction Group Co., Ltd.

**Sponsored by:** China Communications Construction Company First Harbor Consultants Co., Ltd.

**Edited by:** Port Engineering Technology Editorial Office

**Publishing Code:** ISSN 1004-9592  
CN 12-1220/U

**Address:** 1472 Dagu Road (South) Tianjin, China    **Post Code:** 300222

**Tel:** (86-22)28160808    **Fax:** (86-22)28341925    **E-mail:** ggbjb@fdine.net

**Editor-in-Chief:** Li Weiguo    **Executive Editor:** Li Weiguo

**Published & Issued by:** Port Engineering Technology Editorial Office