

国家新闻出版广电总局认定的学术期刊 《中国核心期刊(遴选)数据库》来源期刊

ISSN 1004-9592
CN 12-1220/U

港口技术

2

2022年4月

第59卷

PORT ENGINEERING TECHNOLOGY

【总第270期】

港口技术
第五十九卷
第二期
二〇二二年四月
总第二百七十期

唐山港曹妃甸钢铁物流有限公司通用码头



中国交通建设集团有限公司 主管
中交第一航务工程勘察设计院有限公司 主办

目 次

海岸动力

多孔结构防波堤消浪特性实验研究.....倪道俊, 魏宇墨, 齐 欣 (1)

平面工艺

港口储配煤基地自动化控制系统的探索与应用.....宋英麟, 孙 鲁, 张树元 (6)

门座起重机与高架移动卸料漏斗组合应用研究.....岳金灿, 李佩祎 (10)

基于 Optimoor 的绿洲级邮轮码头系泊分析研究.....杨 明 (15)

茂名港利丰散货码头水域布置优化设计.....杨攀博, 杨松姍, 李俊良 (18)

远海 PPK 测量潮位用于深度基准面计算的研究.....周 颖, 王 瑞 (23)

结构

船舶停靠码头撞击力研究.....周 丹 (27)

中外斜坡式防波堤结构设计方法对比.....宋建东, 王 刚, 赵 凯 (32)

水工平台上建筑物结构设计.....刘月红, 韩广兴 (37)

东营港东营港区防波挡沙堤结构型式研究.....杨文斌, 李 颖 (41)

基于国外标准的静载试验数据分析方法.....吴城新, 王 东 (46)

高烈度地震区大跨度引桥结构的应用数值模拟分析.....周鑫强, 郭浩霖, 覃 杰, 陈良志 (50)

船坞设计各行业规范条文取值探讨.....王广成, 刘馨怡, 刁伟明 (55)

综合

具有运输 PHC 桩要求的临时码头施工要点.....柳承辉, 冯光华, 李脉森 (60)

内河深水裸岩地质嵌岩钢管桩快速施工技术.....李业勋, 朱奕帆, 左小永, 邓文彬 (64)

危险货物集装箱堆场的防雷设计.....付明立 (68)

海上风电三筒导管架基础浮运特性研究.....练继建, 刘 潇, 郭耀华, 王海军 (72)

步履式顶推法在钢箱梁安装施工中的应用.....许 欣 (76)

自动化码头供电系统设计.....孔德鹏, 武冰洁 (80)

基于 BIM+IoT+AI 的南湖水系治理智慧管理及应用.....魏志杰, 翟国师 (84)

采用一种多功能吊具进行海上风电单桩割除.....张祖涛 (89)

大体积素混凝土胸墙表面裂缝防治措施.....武 涛 (93)

模块化组合工程船平台的设计与应用.....范怀斌, 陆少锋, 刁 约, 巫建军, 李全民, 李基锐 (97)

地基基础

高能级强夯地基振动传播规律研究.....李晓雷, 唐龙龙 (101)

围堤地基固结沉降与侧向变形附加沉降分析.....夏超群, 于 伟, 陈琪林 (104)

某软弱地基深基坑支护计算分析.....刘全兴, 张翠莹 (108)

工程勘察

国产多波束侧扫声呐系统水上测试及性能分析.....徐 乐, 汪连贺 (112)

基于 PPK 技术的高精度内陆水库水位测量.....张 媛, 刘东全, 刘晓金 (116)

封面: 唐山港曹妃甸钢铁物流有限公司通用码头 (摄影 邢迎辉)

Contents

Coastal Dynamics

- Experimental Study on Wave Dissipation Characteristics of Porous Breakwater..... Ni Daojun, Wei Yumo, Qi Xin (1)

Planning and Technology

- Research and Application of Automatic Control System for Coke Storage and Blending Base in Coastal Ports Song Yinglin, Sun Lu, Zhang Shuyuan (6)
- Research and Application of Portal Cranes and Overhead Mobile Unloading Hoppers Yue Jincan, Li Peiyi (10)
- Mooring Analysis for Oasis-class Cruise Terminal Based on Optimoor..... Yang Ming (15)
- Optimum Layout of Water Area around Lifeng Bulk Cargo Terminal in Maoming Port..... Yang Panbo, Yang Songshan, Li Junliang (18)
- Study on Calculation of Water Depth Datum by PPK Tide Level Measuring in Open Sea Zhou Ying, Wang Rui (23)

Structure

- Research on Impact Force Caused by Ships Lying at Berth Zhou Dan (27)
- Comparative Analysis of Design Methods of Slope Breakwater Specified in Chinese and International Codes..... Song Jiandong, Wang Gang, Zhao Kai (32)
- Structural Design of Building on Maritime Platform Liu Yuehong, Han Guangxing (37)
- Study on Structure Type of Sand Barrier at Dongying Harbor of Dongying Port..... Yang Wenbin, Li Ying (41)
- Analysis Method of Static Load Test Data Based on International Standards Guo Chengxin, Wang Dong (46)
- Numerical Simulating Analysis for Application of Long-span Bridge Approach Structure in High-intensity Seismic Zone Zhou Xinqiang, Guo Haolin, Qin Jie, Chen Liangzhi (50)
- Discussion on Value Range in Provisions in Industry Specifications for Design of Dock Wang Guangcheng, Liu Xinyi, Diao Weiming (55)

General

- Construction Essentials of Temporary Wharf with Function of Transportation of PHC Piles Liu Chenghui, Feng Guanghua, Li Maisen (60)
- Rapid Construction Technique of Rock-socketed Steel Pipe Pile under Geological Condition of Inland Deepwater Exposed Rock Li Yexun, Zhu Yifan, Zuo Xiaoyong, Deng Wenbin (64)
- Design of Lightning Protection of Dangerous Goods Container Yard..... Fu Mingli (68)
- Research on Floating Transportation Characteristics of Offshore Wind Power Three-tube Jacket Foundation..... Lian Jijian, Liu Xiao, Guo Yaohua, Wang Haijun (72)
- Walking-Type Incremental Launching Method Applying to Installation of Steel Box girder..... Xu Xin (76)
- Design of Power Supply System for Automated Terminal Kong Depeng, Wu Bingjie (80)
- Intelligent Management and Application of Nanhu Water Improvement System Based on BIM+Iot+AI..... Wei Zhijie, Zhai Guoshi (84)
- Multifunctional Sling Used to Cut off Single Pile of Offshore Wind Power Zhang Zutao (89)
- Analysis of Measures for Preventing and Controlling Cracks on Large-volume Plain Concrete Breast Wall Wu Tao (93)
- Design and application of modular combined engineering ship platform..... Fan Huaibin, Lu Shaofeng, Diao Yue, Wu Jianjun, Li Quanmin, Li Jirui (97)

Foundation

- Study on Propagation Law of Foundation Vibration under High Energy Dynamic Compaction..... Li Xiaolei, Tang Longlong (101)
- Analysis of Consolidation Settlement and Additional Lateral Deformation Settlement of Embankment Foundation..... Xia Chaoqun, Yu Wei, Chen Qilin (104)
- Analysis and Calculation of Deep Foundation Pit Support Based on a Weak Foundation..... Liu Quanxing, Zhang Cuiying (108)

Engineering Investigation

- Underwater Test and Performance Analysis of Multi-Beam Side Scan Sonar System Made in China..... Xu Le, Wang Lianhe (112)
- Application of PPK Technology in High-precision Measuring of Water Level of Inland Reservoir Zhang yuan, Liu Dongquan, Liu Xiaojin (116)

Supervisory Authorit: China Communications Construction Group Co., Ltd.

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

Edited by: Port Engineering Technology Editorial Office **Tel:** (86-22)89560099 **Publishing Code:** ISSN 1004-9592
CN 12-1220/U

Address: Fdine Tower, Dongting Road Hexi District Tianjin, China **Post Code:** 300220

Editor-in-Chief: Qin Fushou **Editor:** Hu Hao, Fan Ruxia, Ji Menghan, Yin Jie **English Editor:** Xie Peng

E-mail: ggjbjb@fdine.net **Website:** www.ggjsbjb.com

Published & Issued by: Port Engineering Technology Editorial Office