

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

1

2023年2月

第60卷

【总第276期】

PORT ENGINEERING TECHNOLOGY

港口技术
第六十卷

第一期

二〇二三年二月

总第二百七十六期

青岛邮轮母港



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

水动力与泥沙运动

- 码头工程钻孔灌注桩施工产生的悬浮泥沙影响研究.....陈华伟, 廖维敏, 朱训扬, 程春梅 (1)
- 基于 DELFT 模型的砂性土管线输送数模研究.....高 梁, 周 滢, 沈伟平 (7)
- 山区码头桩基冲刷研究叶茂胜, 宋成涛, 马 未 (11)
- 海上多边形筒形基础局部冲刷数值模拟研究
.....王大龙, 刘 沙, 郭耀华, 李家乐, 吴司洲, 姜军倪 (15)
- 国内外斜坡堤挡浪墙水平波浪力计算研究.....李少斌, 丁建军, 余神光, 覃 杰 (20)

港口总体与航道

- 基于点云数据处理技术测量车厢剩余冻煤体积研究.....刘志明, 姜 波, 沈 阅 (25)
- 穹顶圆形料仓在大型煤炭港口适用性研究.....李 闯, 马 瑞 (28)

结构与地基基础

- 桩靴贯入对群桩效应影响的模型试验分析.....温承乾, 王建华, 严晓威 (33)
- 内河限制性航道护岸工程 BIM 正向设计方法研究王 涛, 郑 松, 牛作鹏, 梅晓寅 (38)
- 考虑既有船坞的深基坑工程设计殷建国, 李萌玉, 张克胜, 郁志伟, 宋卓华 (43)
- 基于 Midas Civil 的钢管-贝雷组合支架优化设计张 斌, 刘 洋 (48)
- 基于沉降控制的深厚粘土层超长桩基的优化设计陈 波, 谢乔木, 覃 杰, 陈良志 (53)
- 板桩对撑结构在条形深基坑中的应用研究.....马立明 (57)
- 高桩梁板码头面板对结构内力的影响分析.....蔡建冬, 唐照评 (62)

工程勘察与测量

- 黄浦江老防汛墙综合检测鉴定实例分析常 林, 蔡晨雨 (66)
- 全自动机械式智能测斜系统的应用研究朱国峰, 胡 程 (71)

施工与工程管理

- 长江口水下大型半圆体预制构件修复工程实践.....杨立文, 虞 莹 (76)
- 沉箱重力式码头结构裂缝修复施工技术刘春彦, 俞吉繁, 路伟男 (80)
- 变形缝渗漏治理施工工艺的研究黄顺深, 李承柱, 胡欲洁 (83)
- 运营中航道的端坡加深施工方法简析张 博 (87)
- 内河型绞吸船水库清淤作业的绞刀选型周子琛 (91)
- VR 技术在钢结构桥梁施工管理中的应用李玉龙, 李 航 (96)

综合

- 我国港口规划的法律法规体系研究.....孟祥宇, 王学诗, 赵宇迪, 万宝进 (101)
- 生态优先下某机场水道工程技术方案优化.....刘 速, 顾宽海, 孙 龙 (105)
- Civil 3D 在隧道沉管段河床清淤工程中的应用.....张同旭, 程天泽 (111)
- 内河限制性航道工程档案管理 BIM 应用研究郑 松, 刘鲁祎, 郭鹏威 (117)

封面: 青岛邮轮母港

(摄影 乔贯宇)

Contents

Hydrodynamics and Sediment Movement

- Study on Influence of Suspended Sediment Produced in Construction of Bored Cast-in-Situ Piles in Wharf Project Chen Huawei, Liao Weimin, Zhu Xunyang, Cheng Chunmei (1)
- Study on Digital Model of Sandy Soil Pipeline Transportation based on DELFT Model..... Gao Liang, Zhou Ying, Shen Weiping (7)
- Research on Scouring Pile Foundation of Wharf in Mountainous Area Ye Maosheng, Song Chengtao, Ma Wei (11)
- Numerical Simulation Study on Local Scouring Around Polygonal Barrel Foundation of Offshore Wind Power Wang Dalong, Liu Sha, Guo Yaohua, Li Jiale, Wu Sizhou, Jiang Junni (15)
- Research on Calculation for Horizontal Wave Force Acting on Wave-Retaining Wall of Rubble Mound Breakwater Based on Chinese and Overseas Guidelines.....Li Shaobin, Ding Jianjun, Yu Shenguang, Qin Jie (20)

Port and Waterway Planning

- Research on Volume of Residual Frozen Coal Measured by Using Point Cloud Data Processing Technology Liu Zhiming, Jiang Bo, Shen Yue (25)
- Research on Applicability of Dome Circular Silo in Large-Size Coal PortLi Chuang, Ma Rui (28)

Structure and Foundation

- Analysis for Model Test of Pile Cluster Effect Influenced by Spudcan Footings Penetration Wen Chengqian, Wang Jianhua, Yan Xiaowei (33)
- Research on Application of BIM in Archives Management of Restricted Inland River Channel Project Wang Tao,Zheng Song,Niu Zuopeng,Mei Xiaoyin (38)
- Design of Deep Foundation Pit in Terms of Existing Dock..... Yin Jianguo, Li Mengyu, Zhang Kesheng, Yu Zhiwei, Song Zhuohua (43)
- Optimal Design of Steel Pipe-Bailey Combined Scaffolding Based on Midas Civil..... Zhang Bin, Liu Yang (48)
- Optimal Design of Super Long Pile Foundation Applied to Deep Clay Layer Based on Settlement Control..... Chen Bo, Xie Qiaomu, Qin Jie, Chen Liangzhi (53)
- Research on Application of Sheet-Piled Symmetrical Support in Strip-Shaped Deep Foundation Pit..... Ma Liming (57)
- Analysis of Impact on Structure Internal Force by Panel of Beam-Slab Wharf on Piles.....Cai Jiandong, Tang Zhaoping (62)

Investigation and Survey

- Analysis of Comprehensive Detection and Identification of Old Flood Control Wall along Huangpu River Chang Lin, Cai Chenyu (66)
- Research on Application of Fully-Automatic Mechanical Intelligent Inclination Measurement System..... Zhu Guofeng, Hu Cheng (71)

Construction and Engineering Management

- Repair of Large Semi-Circular Prefabricated Components under Yangtze River Estuary Yang Liwen, Yu Ying (76)
- Construction Technology of Crack Repair for Gravity Caisson Wharf..... Liu Chunyan, Yu Jifan, Lu Weinan (80)
- Research on Construction Technology against Water Seepage of Deformation Joint..... Huang Shunshen, Li Chengzhu, Hu Yujie (83)
- Brief Analysis of Construction Method for Deepening Channel End Slope During OperationZhang Bo (87)
- Selection of Cutter Head for Inland-River Cutter Suction Dredger in Dredging Reservoir..... Zhou Zichen (91)
- Application of VR Technology in Construction Management of Steel Structure BridgeLi Yulong, Li Hang (96)

General

- Research on Legal System of Port Planning in China Meng Xiangyu,Wang Xueshi, Zhao Yudi,Wan Baojin (101)
- Optimization of an Airport Water Channel Engineering Design Subject to Priority of Ecological Protection Liu Su, Gu Kuanhai, Sun Long (105)
- Application of Civil 3D Technique in Riverbed Dredging Project at Immersed Pipe Section of TunnelZhang Tongxu, Cheng Tianze (111)
- Research on Application of BIM in Archives Management of Restricted Inland River Channel Project Zheng Song, Liu Luyi, Guo Pengwei (117)

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)89560312 **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:** Xie Peng, Hu Hao, Yin Jie

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

Published & Issued by: Port Engineering Technology Editorial Office