

中国科技核心期刊 中国科技期刊精品数据库收录期刊 天津市一级期刊

ISSN 1004-9592
CN 12-1220/U

港口技术

2

2016

第 53 卷

【总第 229 期】

PORT ENGINEERING TECHNOLOGY

港口技术
第五十三卷

第二期

二〇一六年四月

总第二百二十九期



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

双月刊
第53卷
第2期
(总第229期)

本期2016年4月出版
1964年创刊

中国科技核心期刊
万方数据-数字化期刊群入网期刊
天津市一级期刊
《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》收录期刊
《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
《中国知网》收录期刊

编辑委员会

顾问:谢世楞 顾民权 袁浩清
主任:祝世华
副主任:吴今权 季则舟 秦福寿
编委:(以下按姓氏笔画为序)

王晋 王元战 卢永昌 李伟
李一勇 李元音 朱子平 刘进生
刘彦忠 杜韬 杨丽民 杨学群
吴澎 邹北川 宋向群 宋庆华
张华庆 陈广桐 武守元 范少杰
罗刚 赵晓岚 徐光 戚玉红
程泽坤 舒宁 蔡波

主管:中国交通建设集团有限公司
主办:中交第一航务工程勘察设计院有限公司
主编:秦福寿
编辑:仇沃 邢迎辉 王震
英文:谢鹏
出版:《港工技术》编辑部
发行:《港工技术》编辑部
地址:天津市河西区大沽南路1472号
邮编:300222
电话:(022)28160808-3337
传真:(022)28341925
邮箱:ggbjb@fdine.net
网址:www.ggjsbjb.com
中国标准连续出版物号:ISSN 1004-9592
CN 12-1220/U
广告经营许可证号:1201034000016
印刷:廊坊市佰利得彩印制版有限公司

目次

海岸动力

- 离岸人工岛内水环境的影响研究·····朱宇新,李欣 (1)
泥沙颗粒沿水深方向的受力研究·····李世森,张睿 (6)
系泊船舶艏部与重心运动量差异的试验研究·····
·····张先波,杨亚先,吕迎雪,黄宣军,孙士勇 (13)

平面工艺

- 沿海港口集疏港道路容量可靠度研究·····
·····郭子坚,黄宇鹏,王文渊,周勇 (17)
门座起重机臂架系统刚柔耦合动力学仿真分析·····王云哲,胡浩亮 (20)
集装箱码头平面布置国内外差异分析·····谷文强,温秀媛 (23)
三沙市开发重点与大型基础设施建设技术探讨·····周玉华 (27)
游船码头规划探讨·····张文玉 (31)
长江口航道通过能力的评价与预测研究·····杨兴晏,胡世津,孙景龙 (34)
唐山港曹妃甸港区二港池东岸线南端码头面高程研究··魏美芳,邳青岭 (40)
港口铁路翻车机房重车线防爬措施··杨松姍,郭春玲,张威,何冯斌 (43)

结构

- 单点系泊系统系泊力响应特性分析·····苏方磊,马小舟,马玉祥 (46)
陆上风机圆形基础底板承载力计算方法研究·····梅毕祥,杨敏 (50)
深水软基斜坡堤沉降变形对护面层稳定的影响·····
·····孙楠,李健,别社安 (55)

综合

- 论黄骅港综合港区雷达站建设的必要性·····张靖悦,刘桂娟 (59)
重力式码头基床夯实对码头沉降位移变化的影响·····
·····任一飞,曹海岳,高平原 (63)
储粮筒仓屋顶高支模架的设计与应用·····陈聪,刘玉宝,李小强 (67)
某职工公寓工程深基坑设计及监测·····吴翔,刘玉宝 (70)
穿越地下管线的地连墙处理技术·····王剑,邢荣亮,赵明时 (74)
港口堆场高杆灯智能照明设计及应用·····刘瑞雪,巴特,高向凯 (78)
天津东疆湾人工沙滩渗流成因分析及修复·····杨佳男,仇沃 (81)

地基基础

- 强夯法在曹妃甸矿石三期新吹填地基中的应用·····郑启明,朱平 (84)
堆场地基处理数值分析及轨道梁变位研究·····叶祥记,周佳 (88)

工程勘察

- 浅谈锚桩法在水运工程基桩静载荷试验中的应用·····郭伟,马慧青 (92)
快速固结法测定固结系数的试验研究·····陈素侠,王楠,孟令福,胡相波 (95)
封面:营口港鲅鱼圈港区64[#]~66[#]钢杂泊位 (摄影 邢迎辉)

Contents

Coastal Dynamics

- Effect of Water Environment of Offshore Artificial Island.....Zhu Yuxin, Li Xin (1)
- Analysis of Forces on Sediment Particles at Different Depth.....Li Shisen, Zhang Rui (6)
- Physical Model Study of Ship Motion Differences between Stern and center of Gravity for Moored Ro-Ro Ship.....
.....Zhang Xianbo, Yang Yaxian, Lyu Yingxue, Huang Xuanjun, Sun Shiyong (13)

Planning and Technology

- Analysis on Capacity Reliability of Collecting and Distributing Road of Seaport.....
.....Guo Zijian, Hoang Yupeng, Wang Wenyuan, Zhou Yong (17)
- Dynamic Simulation Analysis on Rigid-flexible Coupling of Portal Crane Boom System.....Wang Yunzhe, Hu Haoliang (20)
- Differential Analysis of Container Terminal Plane Layouts Adopted in China and Abroad.....Gu Wenqiang, Wen Xiuyuan (23)
- Keystones of Sansha City Development and Construction Techniques of Large-scale Infrastructure.....Zhou Yuhua (27)
- Discussion on Layout of Yacht Harbor.....Zhang Wenyu (31)
- Evaluation and Prediction on Trafficability of Navigation Channel at Estuary of Yangtze River.....
.....Yang Xingyan, Hu Shijin, Sun Jinglong (34)
- Research on Wharf Surface Elevation of Southernmost Quay along East Shoreline of No.2 Harbor Basin of Tangshan Port Caofeidian Harbor.....Wei Meifang, Pi Qingling (40)
- Anti-creeping Measures Applying to Unloading Lines of Car Dumper Shed in Harbor.....
.....Yang Songshan, Guo Chunling, Zhang Wei, He Fengbin (43)

Structure

- Analysis of Mooring Force Response Characteristics of Single Point Mooring System.....
.....Su Fanglei, Ma Xiaozhou, Ma Yuxiang (46)
- Calculation Method for Bearing Capacity of Circular Foundation Slab Supporting Onshore Wind Turbine.....Mei Bixiang, Yang Min (50)
- Impact on Stability of Armor Layer Due to Settlement and Deformation of Inclined Breakwater Supported on Deepwater Soft Soil Ground.....Sun Nan, Li Jian, Bie She'an (55)

General

- Necessity of Building a Radar Station in Huanghua Port Comprehensive Harbor.....Zhang Jingyue, Liu Guijuan (59)
- Influence of Bedding Compaction on Settlement and Displacement of Gravity Wharf Structure.....Ren Yifei, Cao Haiyue, Gao Pingyuan (63)
- Design and Application of High Framework Support on Roof of Grain Silo.....Chen Cong, Liu Yubao, Li Xiaoqiang (67)
- Deep Foundation Pit Design and Monitoring of A Staff Apartment Project.....Wu Xiang, Liu Yubao (70)
- Processing Technology for Underground Diaphragm Walls crossing Underground Pipeline.....
.....Wang Jian, Xing Rongliang, Zhao Mingshi (74)
- Intelligent Illumination Design of Stockyard High-pole Lamp and Its Application.....Liu Ruixue, Ba Te, Gao Xiangkai (78)
- Tianjin east port artificial beach seepage causes analysis and repair.....Yang Jianan, Zhang Wo (81)

Foundation

- Application of Dynamic Compaction in New Ground Reclamation of Caofeidian Ore Terminal Phase-3 Project.....
.....Zheng Qiming, Zhu Ping (84)
- Numerical Analysis of Foundation Treatment and Deflection Study of Rail Beam in Stockyard.....Ye Xiangji, Zhou Jia (88)

Engineering Investigation

- Application of Anchor Pile Method in Static Load Test of Waterway Engineering Foundation Piles.....Guo Wei, Ma Huiqing (92)
- The Experimental Research on rapid Consolidation Method of Scale Coefficient Consolidation.....
.....Chen Suxia, Wang Nan, Meng Lingfu, Hu Xiangbo (95)

Supervisory 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)28160808-3337 **Fax:** (86-22)28341925

Editor-in-Chief: Qin Fushou **Editor:** Zhang Wo, Xing Yinghui, Wang Zhen **English Editor:** Xie Peng **E-mail:** ggbjb@fdine.net

Published & Issued by: Port Engineering Technology Editorial Office