

# 目次

## ● 西部陆海新通道——平陆运河工程建设专栏(6) ●

- 平陆运河航道行洪模拟研究\* ..... 邹宏荣, 农永欣, 蒋超华, 冯罗杰(1)  
平陆运河生态廊道建设研究\* ..... 唐 玮, 翟宇昆, 吴国鼎(9)

## ● 综 合 ●

- 较长周期波浪作用下系泊船舶装卸作业波浪标准的试验研究\* .....  
..... 王炜正, 俞武华, 柳淑学, 李金宣, 赵 序, 张昊宸(16)  
洋口港潮滩沉积过程研究\* ..... 李兰满, 林伟波, 张一乙, 陈 鹏(23)  
基于Monte-Carlo法的锈蚀钢筋混凝土构件截面钢筋锈蚀率研究\* .....  
..... 李嘉民, 应宗权, 梁梓豪, 刘梅梅, 赵 娟(29)

## ● 港 口 ●

- 大连港大窑湾港区北岸集装箱码头方案优化\* ..... 薛天寒, 李 蕊, 徐 杏, 扬 懿, 王达川, 房 卓(37)  
基于经典遗传算法的系缆墩桩位布置优化 ..... 廖振华, 施 挺, 冯 浩(44)  
绿色发展下宁波舟山港岸线资源集约高效利用模式及规划导向 .....  
..... 沈 忱, 董 敏, 胡 怡, 郝 军, 张民辉, 李善友, 王达川(51)  
低顶岛式斜坡堤的堤顶高程设计方法 ..... 阳 磊, 祝健康, 李江文(56)  
半直立半斜坡式防波堤结构设计 ..... 蒋美娇, 蒋国栋(61)  
复杂条件下沿江电厂码头与取水口共用岸线方案研究 ..... 董焱赫, 艾 菁, 宋莉莉, 赵 鹏, 李歌清(67)

## ● 航道及通航建筑物 ●

- 剑潭双线船闸泄水口及下引航道通航水流条件模型试验\* .....  
..... 王召兵, 倪自强, 陈 亮, 王 蛟, 谢春航(76)  
低含沙条件下长江口丁坝群冲淤及水动力变化特点\* ..... 李溢汶, 吴巍巍, 代 斌(85)  
沅水尾间金石垸、太湖垸采砂对航道水流条件的影响\* .....  
..... 朱博渊, 刘 涛, 谢景彧, 李 贲, 王敬文, 高月星(93)

大型省水船闸省水池布置形式研究*	纪懿桓, 阚得静, 汤建宏	(102)
沙坪河—郁江交汇口航道优化设计与试验研究*	张永恒, 张勇	(107)
长江上游宜宾至重庆河段水沙情势变化特征*	郑沛, 钟亮, 赵瑜健	(113)
八堡双线船闸引航道通航水流条件观测研究*	胡天娅, 严秀俊, 李海健, 孔增增	(122)
弯曲河段复线船闸引航道方案优化设计*	刘江林, 王平	(129)
桃源枢纽河段通航水流条件数值模拟	王多银, 吴穗庆, 段伦良, 李国洋, 唐选海, 秦晨曦, 杜文力	(136)
沅水桃源枢纽二线船闸整体布置试验研究	周千凯, 李帆, 周林辉, 蒋孜伟	(145)
三峡升船机船厢应对水位波动对接方案优化及应用	彭享文, 金锋, 闫晓青	(154)
平原河网地区内河通航水域认定原则及通航标准研究	邓丰昌	(158)
微山三线船闸输水系统优化设计	刘慧芳, 禹化强, 姜兴良	(164)
柳江 II 级航道工程可行性研究	郑卫平	(171)

## ● 地基与基础 ●

航道膨胀土边坡力学参数反演及变形预测分析*	张磊, 周傲, 刘传新	(177)
高烈度地震区袋装砂堤液化数值模拟及措施*	曾远, 蒋腊梅, 贾敏才	(185)

## ● 施 工 ●

玄武岩纤维制品在老码头加固修复中的应用*	简威威, 林猛, 谷坤鹏, 王泉泉	(193)
耙吸挖泥动态分层定深施工工艺应用	徐军	(199)
高频破碎锤清礁范围适用性分析	邹永胜, 李启佳, 王锐, 汪江军, 冯国星, 闵文军	(205)
薄壁排水沟辅助入模浇筑施工工艺改进*	邵鹏飞, 邹俊杰	(209)

## ● 特约彩版 ●

理事单位风采——中交海洋建设开发有限公司		
马来西亚马六甲鑫苑海上花项目		(封面)
公司简介		(封二)
资质/专利		(插一)
典型工程		(插二~插三)
工程装备		(插四)
理事单位风采——巨力索具股份有限公司		(封三)
理事单位风采——武汉鲸禾科技有限公司		(封底)

# CONTENTS

## The New Western Land-sea Corridor: Pinglu Canal Project Construction Column

- Simulation of flood control capacity of Pinglu Canal ..... ZOU Hongrong, NONG Yongxin, JIANG Chaohua, FENG Luojie ( 1 )  
Ecological corridor construction of Pinglu Canal ..... TANG Wei, ZHAI Yukun, WU Guoding ( 9 )

### ●Comprehensive

- Experimental studies on wave standard for mooring ship operation under longer period wave action .....  
..... WANG Weizheng, YU Wuhua, LIU Shuxue, LI Jinxuan, ZHAO Xu, ZHANG Haochen ( 16 )  
Sedimentary process of tidal flat in Yangkou Port ..... LI Lanman, LIN Weibo, ZHANG Yiyi, CHEN Peng ( 23 )  
Comprehensive corrosion rate at cross-section of corroded reinforced concrete member by Monte-Carlo method .....  
..... LI Jiamin, YING Zongquan, LIANG Zihao, LIU Meimei, ZHAO Juan ( 29 )

### ●Port

- Optimization of north coast container terminal scheme in Dayaowan port area of Dalian Port .....  
..... XUE Tianhan, LI Rui, XU Xing, YANG Yi, WANG Dachuan, FANG Zhuo ( 37 )  
Optimization of pile arrangement for mooring dolphin based on classic genetic algorithm ..... LIAO Zhenhua, SHI Ting, FENG Hao ( 44 )  
Mode and planning orientation of intensive and efficient utilization of shoreline resources of Ningbo-Zhoushan Port in context of green development .....  
..... SHEN Chen, DONG Min, HU Yi, HAO Jun, ZHANG Minhui, LI Shanyou, WANG Dachuan ( 51 )  
Design method for crest elevation of low-crested sloping island breakwater ..... YANG Lei, ZHU Jiankang, LI Jiangwen ( 56 )  
Structural design of semi-vertical and semi-sloping breakwater ..... JIANG Meijiao, JIANG Guodong ( 61 )  
Scheme for sharing shoreline between wharf and water intake of power plants along river under complex conditions .....  
..... DONG Yanhe, AI Jing, SONG Lili, ZHAO Peng, LI Geqing ( 67 )

### ●Waterway and Navigation Structure

- Experimental study on navigable flow conditions at outlet and downstream approach channel of Jiantan double-line ship lock .....  
..... WANG Zhaobing, NI Ziqiang, CHEN Liang, WANG Jiao, XIE Chunhang ( 76 )  
Alluvial and hydrodynamic characteristics of spur-dikes under low sediment concentration condition in the Yangtze River Estuary .....  
..... LI Yiwen, WU Weiwei, DAI Bin ( 85 )  
Impact of sand mining of Jinshi and Taihu embankments at lowest reach of Yuanjiang River on hydrodynamics of nearby shipping channel .....  
..... ZHU Boyuan, LIU Tao, XIE Jingyu, LI Yun, WANG Jingwen, GAO Yuexing ( 93 )  
Layout of water-saving basins of large locks ..... JI Yihuan, KAN Dejing, TANG Jianhong ( 102 )  
Optimized design and experimental study of navigation channel at confluence of Shaping River and Yu River ..... ZHANG Yongheng, ZHANG Yong ( 107 )  
Change characteristics in water and sediment conditions in upper reaches of the Yangtze River from Yibin to Chongqing .....  
..... ZHENG Pei, ZHONG Liang, ZHAO Yujian ( 113 )  
Observational study on navigational water flow conditions in approach channel of Babao double-lane ship lock .....  
..... HU Tianya, YAN Xiujun, LI Haijian, KONG Zengzeng ( 122 )  
Optimization design of approach channel scheme for double track ship locks in curved river ..... LIU Jianglin, WANG Ping ( 129 )  
Numerical simulation of navigation water flow conditions in Taoyuan Hub section .....  
..... WANG Duoyin, WU Suiqing, DUAN Lunliang, LI Guoyang, TANG Xuanhai, QIN Chenxi, DU Wenli ( 136 )  
Test on overall layout of second ship lock at Taoyuan Hub in Yuan River ..... ZHOU Qiankai, LI Fan, ZHOU Linhui, JIANG Ziwei ( 145 )  
Optimization and application of water level fluctuation in docking process of Three Gorges ship lift ..... PENG Xiangwen, JIN Feng, YAN Xiaoqing ( 154 )  
Recognition principles and navigation standards of navigable waters in plain river network areas ..... DENG Fengchang ( 158 )  
Optimization design of filling-emptying system for Weishan third-line ship lock ..... LIU Huifang, YU Huaqiang, JIANG Xingliang ( 164 )  
Feasibility of Liujiang class II waterway project ..... ZHENG Weiping ( 171 )

### ●Ground and Foundation

- Mechanical parameter inversion and deformation prediction of expansive soil slope in waterway ..... ZHANG Lei, ZHOU Ao, LIU Chuanxin ( 177 )  
Numerical simulation and measures of liquefaction of bagged sandembankment in high-intensity seismic areas .....  
..... ZENG Yuan, JIANG Lamei, JIA Mincai ( 185 )

### ●Construction

- Application of basalt fiber products in reinforcement and repair of old wharves ..... LIN Weiwei, LIN Meng, GU Kunpeng, WANG Quanquan ( 193 )  
Application of dynamic delamination depth determination construction technology for rake-suction dredging ..... XU Jun ( 199 )  
Applicability analysis of high-frequency hammer for reef cleaning range ..... ZOU Yongsheng, LI Qijia, WANG Rui, WANG Jiangjun, FENG Guoxing, MIN Wenjun ( 205 )  
Improvement of construction technology for thin-walled drainage ditch assisted injection molding and pouring ..... SHAO Pengfei, ZOU Junjie ( 209 )