

# 上海船舶运输科学研究所

SHANGHAI CHUANBO YUNSHU KEXUE YANJIUSUO

## 学报

XUEBAO

第 42 卷第 2 期

总第 96 期

2019 年 6 月 30 日

## 目 次

舵和艉鳍对超大型集装箱船操纵性的影响 ······	吴梓鑫，陈伟民，李建鹏	(1)
5 000 t 起重船稳性衡准研究及 NAPA 宏命令应用 ······	阎岩，王文杰	(7)
某油船的节能技术分析 ······	殷晓俊，任海奎，黄家彬，陈霞萍	(12)
新型拍动翼仿生推进性能 ······	徐令令，李永成	(18)
智能时代船舶驾驶对航海保障的需求 ······	唐庆友，宋妍成，杨弘璐	(23)
一种新型原油转驳船箱形舭龙骨设计优化 ······	谢利强，吴承恩，郭晓东	(28)
基于人工神经网络的实船航行主机能耗预估自学习模型 ·····	张焱飞，李荣宗，文逸彦，乔继潘	(34)
水下单层无肋圆柱壳振声规律影响因素 ······	吴玥，陈新传，关涛	(38)
BNWAS 静电放电抗扰度试验分析与改进措施 ······	俞叶萍，潘万欣	(43)
大容量发电船的电气保护技术 ······	刘峰，李荣宗，王志辉	(48)
具有电能质量分析功能的船舶电站控制器设计 ······	于春鹏，何勰	(53)
持续数据保护技术在企业级业务系统中的应用 ······	赵科，郭磊	(59)
基于 CAN 总线的船舶货舱进水报警系统设计 ······	王树东	(65)
地下水巾多环芳烃有机污染物的微生物修复研究进展 ·····	徐莹，魏欣，李美	(71)
建筑玻璃幕墙反射光对城市道路的影响 ···	毛鹤群，王帆，徐桂茹，管丽波	(74)
我国废弃荧光灯的回收处置现状和改进措施 ······	沈成媛	(79)

## CONTENTS

Effect of Rudder and Skeg on Maneuverability of ULCS

..... WU Zixin, CHEN Weimin, LI Jianpeng (1)

Stability of 5 000 t Floating Crane Barge with the Application of NAPA Macro

..... YAN Yan, WANG Wenjie (7)

Energy Saving Measures for an Oil Tanker

..... YIN Xiaojun, REN Haikui, HUANG Jiabin, CHEN Xiaping (12)

Performance of a New Type Flapping Foil Propulsion

..... XU Lingling, LI Yongcheng (18)

Requirements for Navigational Support in the Age of Intelligence

..... TANG Qingyou, SONG Yancheng, YANG Hongrong (23)

A Box Type Bilge Keel Design for the Crude Oil Transfer Vessel

..... XIE Liqiang, WU Cheng'en, GUO Xiaodong (28)

Self-Learning Artificial Neural Network Model for Pre-Estimating Ship Energy Consumption for a Voyage

..... ZHANG Yanfei, LI Rongzong, WEN Yiyuan, QIAO Jipan (34)

Parameter Influence over the Acoustic Radiation Characteristics of the Unribbed Cylindrical Shell  
Under Water

..... WU Yue, CHEN Xinchuan, GUAN Tao (38)

Improving Electrostatic Discharge Immunity of a BNWAS Design

..... YU Yeping, PAN Wanxin (43)

Electric Protection Technology for a Large Capacity Power Ship

..... LIU Feng, LI Rongzong, WANG Zhihui (48)

Design of Ship Power Station Controller with Power Quality Analysis Function

..... YU Chunpeng, HE Xie (53)

Application of Continuous Data Protection in Enterprise-Level Business System

..... ZHAO Ke, GUO Lei (59)

Design of Ship Water Ingress Alarm System Based on CANBUS

..... WANG Shudong (65)

Advances in Bioremediation of Polycyclic Aromatic Hydrocarbon Organic Pollutants in Groundwater

..... XU Ying, WEI Xin, LI Mei (71)

Prevention of Light Reflection to Urban Roads off Architectural Glass Curtain Walls

..... MAO Hequn, WANG Fan, XU Guiru, GUAN Libo (74)

Current Situation and Improvement Measures of Recycling of Waste Fluorescent Lamps in China

..... SHEN Chengyuan (79)