

# 目次 Contents



## 综述

潜艇舱室空气处理技术研究进展  
*Study Progress of Air Treatment Technology in Submarine Cabin*  
王朋辉, 倪伟, 颜欢, 严乙铭 (1)

## 船舶原理、船舶设计与船舶结构

12000吨自航全回转起重船强度分析和评估  
*Strength Analysis and Evaluation of 12000t Self-propelled Revolving Heavy Lift Vessel*  
许璠璠, 夏利娟, 李朝阳 (5)

双轴加载下船底纵骨疲劳寿命试验与数值模拟研究  
*Experiment and Numerical Simulation Study of Bottom Longitudinal Fatigue under Biaxial Loading*  
许飞, 谢永和, 王伟, 乐京霞 (9)

海上三体风电运维船阻力和运动性能综合研究  
*Comprehensive Study on Resistance and Motion Performance of Offshore Maintenance Trimaran for Wind Farm*  
谢云平, 彭鹏 (13)

基于波浪增阻的长球艏球艉双体风电维护船研究  
*Research of Maintenance Catamaran in Wind Farm with Big Bulbous Head and Stern Based on Wave Added Resistance*  
陈悦, 徐殷茵, 胡冬芳, 谢云平 (18)

## 船舶机械

两栖空气动力艇悬挂系统设计仿真  
*Design and Simulation on Independent Suspension System of Airboat*  
姜允川, 祝海涛, 张润博 (23)

基于 AMESim-Simulink 的船舶液压推进系统仿真研究  
*Simulation of Marine Hydraulic Propulsion System Based on AMESim-Simulink Co-simulation*  
胡明华, 马来好, 杨杰, 陈海泉 (28)

纵倾优化下的船舶能效数值模型  
*Numerical Model of Ship Energy Efficiency with Trim Optimization*  
刘伊凡, 张剑, 张跃文 (31)

绞吸挖泥船新型台车缓冲系统分析  
*Analysis on New Spud Buffering System of Cutter Suction Dredger*  
汲国瑞, 杨启, 王永东, 甄义省 (35)

超大型全回转浮吊轮压分析及优化研究  
*Roller-Loads Analysis and Optimization Study of Super-large Revolving Floating Crane*  
隋振华, 严兵, 郭宏亮 (40)

## 船舶电气、导航与自动化控制

六相永磁同步电机三电平变频调速控制策略研究  
*Research on Control Strategy of Three Level Inverter Six Phase Permanent Magnet Synchronous Motor*  
黄超, 杨平西, 李姍, 陈琳, 邓庆伟, 高玮 (43)

电容法在多相流参数测量领域的应用开发  
*Application Development of the Capacitance Method to Measure the Multiphase Flow Parameter*  
戴俊 (47)

“沪救捞62” DP 系统实船研究  
*Research of Dynamic Positioning System on “HUJIULAO62”*  
陈德兴, 朱文生, 李英明, 施浩, 张华, 刘震海 (52)

基于双轴速率转台的 IMU440 惯性测量单元快速标定方法与实验  
*The Fast Calibration Method and Experiment of IMU440 Inertial Measurement Unit Based on Biaxial Rate Turntable*  
王佳, 丁鑫, 高文超, 卢道华 (56)

基于数据驱动的船用冷藏集装箱智能故障诊断方法研究  
*Research on the Automated Fault Detection and Diagnosis in Marine Refrigerated Container Based on Data-driven*  
郑超瑜, 俞文胜, 陈武 (60)

模糊 PID 控制在参考式扭矩装置伺服加载系统中的应用  
*Fuzzy PID Control Method Applying in Reference Torque Standard Machine Loading System*  
缪凯祥, 焦依, 戴明 (65)

西门子 BDPC 系统在 CTV 上的可行性研究  
*Feasibility Research of SIMENS' BDPC System on CTV*  
陈德林 (68)

## 船舶舾装设备、修造工艺与造船材料

复杂载荷作用下船体板格屈曲强度计算公式研究  
*Study on Hull Plate Buckling Strength Formula under Combined Loads*  
陈先胤, 任慧龙, 汪松, 王高祥 (74)

船用氮气储存罐的筒体和封头焊接工艺分析  
*Analysis on Welding Procedure of the Barrel and Shell Cover of Marine Nitrogen Storage Tanks*  
吴志亚, 何旭丹 (78)

## 海洋工程

海工船舱室噪声控制技术探索  
*Exploration on Cabin Noise Control Technology of Offshore Vessels*  
宋现国, 赵日定 (82)

浅水单模块浮式防波堤锚泊系统分析研究  
*Analysis and Study of Single-module Floating Breakwater Mooring System in Shallow Water*  
任慧龙, 杜娟, 马山, 王迪 (87)

海底埋设管线平管起吊运动分析  
*Analysis on Horizontal Tube Lifting Motion of Subsea Buried Pipeline*  
边大勇, 杜颖, 刘建峰, 阮伟东, 唐继蔚, 白勇 (92)

南海海域地质参数变化对地基承载力的影响及穿刺评估  
*Affect of Changing Geological Parameters in South China Sea on the Bearing Capacity of Foundation and Puncture Assessment*  
周宏, 罗萍萍, 周锋 (98)

## 造船管理

造船生产技术准备管理系统的的需求及架构研究  
*Research on Requirements and Architecture of Productive and Technical Preparation in Shipbuilding System*  
徐英杰, 马晓平 (103)

船舶设计阶段提高钢材利用率的方法探讨  
*Discussion of Method of Improving Utilization Rate of Steel in Ship Design Stage*  
杨海燕, 滕勇 (108)