

# 目次 Contents

## 综述

舰船推力轴承液压减振装置研究综述  
*Overview of Resonance Changer to Reduce Longitudinal Vibration of Thrust Bearing in Marine Vessel*  
罗 强, 马永明, 冀相安, 王晓曼 (1)

## 船舶原理、船舶设计与船舶结构

江海直达宽扁船型弯扭强度直接计算的一种简化方法  
*Simplified Direct Calculation of Torsion-bending Strength of a Broad and Flat river-sea Transportation Ship*  
董 岩, 乐京霞, 吴卫国, 张文华 (6)

基于均匀法的风雨载荷下折叠式舱口盖拓扑优化设计研究  
*Research on Topology Optimization based on Homogenization for Folding Hatch Covers under Wind and Rain Load*  
王明强, 徐 健 (10)

基于概率破舱的载荷计算方法及弯曲剩余强度分析研究  
*Analysis and Research on Load Calculation Based on Probabilistic Damage Stability and Bending Residual Strength*  
谢云平, 贾雪瑾, 彭言峰 (14)

外接平板型金属夹层结构连接构件极限强度分析  
*Analysis of Ultimate Strength Property of Cover Plate Steel Sandwich Structure Joint*  
王 虎 (17)

半无限开敞水域船舶水动力系数问题研究  
*Research on Hydrodynamic Parameter of Ship on Semi-infinite Water Area*  
王凡超, 陈 忱, 严传续 (21)

拖船回转机动状态下的拖缆暂态分析  
*Transient Behavior of Towed Cable during Ship Turning Maneuver*  
王自发, 朱克强, 徐为兵, 张天宇, 张 洋, 章浩燕 (24)

## 船舶机械

船用柴油/天然气双燃料动力系统的控制与特性研究  
*Investigation on Control and Performance of Dual-fuel Diesel/Natural Gas Powered Systems in Ship*  
李捷辉, 黄铁男, 时国伟, 崔宇峰, 王名传 (29)

船用柴油机混合建模方法研究  
*Study on Hybrid Modeling Method of Marine Diesel Engine*  
孔庆福, 李军华, 戴余良, 金家善 (33)

深潜器等厚导管螺旋桨敞水性能计算分析  
*Calculation and Analysis of Open Water Performance for Submersibles Identical Thickness Ducted Propellers*  
刘可峰, 姚宝恒, 连 珺 (37)

船-舵-桨的水动力干扰效应研究  
*Research on Hydrodynamic Interference Effect between Hull Rudder and Propeller*  
侯建军, 石爱国, 吴 明, 杨 波 (41)

基于小波分析的船舶螺旋桨故障诊断  
*Fault Diagnosis of Ship Propeller Based on Wavelet Analysis*  
黄 辉, 褚建新, 沈爱弟 (45)

基于AMESim/Simulink的调距桨装置伺服系统联合仿真对比研究  
*Co-simulation Research on Servo System of Controllable Pitch Propeller Based on AMESim/Simulink*  
李广瑞, 焦 敏, 洪永华 (49)

吊艇架阻尼的非线性优化设计  
*Nonlinear Optimal Design of Davit Damping*  
史洪宇, 韩 瑜, 梁利华, 肖 瑶 (52)

## 船舶电气、导航与自动化控制

基于有源滤波器的电力推进系统谐波抑制  
*Harmonic Suppression of Ship Electric Propulsion System Based on Active Power Filter*  
李 彦, 秦有杰 (55)

基于有限元分析的微流体油液检测芯片输出信号规律研究  
*Research on Output Regularities of Oil Detection Microfluidic Chip Based on FEM*

张兴明, 张洪朋, 孙玉清, 郭 力, 张银东 (59)

工程船动力定位系统滤波器设计与研究  
*The Filter Design and Research of Dynamic Positioning System for Engineering Ships*  
袁 伟, 俞孟琪, 杨奕飞 (63)

船用核汽轮机转速串级前馈-反馈模糊PID控制  
*Research on Speed Controller in Marine Nuclear Steam Turbine Based on Cascade Feed forward-feedback Fuzzy PID Algorithm*  
王元慧, 顾娇娇, 张晓云, 袁宝新 (66)

模糊解耦在UVV回收运动控制中的应用  
*Application of Fuzzy Decoupling Method in UVV Recycle Movement Control*  
张 伟, 王南南, 严浙平, 周佳加, 徐鹏飞 (71)

## 船舶舾装设备、修造工艺与造船材料

大曲率帆形板水火弯板火路生成算法研究与实现  
*Research and Implementation of Flame Way Generation Algorithm of Big Curvature Sail Plate by Line Heating*  
周乔皇, 程良伦 (76)

船体结构T型接头焊接变形数值模拟研究  
*Study on Numerical Simulation of T-joint Welding Deformation of Hull Structure*  
陈倩倩, 董自水, 唐水刚, 董明海 (79)

船舶舱室色彩搭配对船员工效影响研究  
*Researches on Experimentation with Influence of Cabin Color on Crew's Performance*  
李中付, 余 浩, 时粉周, 丁 猛, 戴圣龙 (82)

冰与钢-泡沫夹层结构冲击特性研究  
*Research on Collision of Ice and Steel-foam Sandwich Structure*  
张金军 (87)

## 数字化造船

基于知识工程的船体结构快速设计  
*Quick Design for Hull Structure Based on Knowledge Engineering*  
管 官, 林 焰, 纪卓尚 (91)

仿真技术在船舶分段建造计划中的应用研究  
*Application Study of Simulation Technology in Ship Block-building Planning*  
陈 宁, 王 真, 杨 浩, 徐 慧, 谢铁龙 (96)

基于面积和斜率灰色关联度的舰船方案群决策方法  
*Group Decision-Making of Warship Design Alternatives Based on Area and Slope Grey Degree*  
黄 胜, 郭海鹏, 王 超 (100)

## 海洋工程

海洋平台风载荷的数值分析  
*Numerical Analysis of Wind Load for Offshore Platform*  
林 一, 胡安康, 蒋 玮 (104)

基于管道极限承载力分析的深水S型铺管托管架基本设计研究  
*Basic Design and Study on Deepwater S-type Pipelaying Stinger based on Ultimate Bearing Capacity Analysis of Submarine Pipe*  
谢 鹏, 岳前进 (109)

## 造船管理

管制下的船舶制造业多主体智能博弈仿真研究  
*Research on Multi-agent Intelligent Game Simulation of Shipbuilding Industry under Regulation*  
程逸飞, 贾向锋, 陈 威 (113)

造船行业清洁生产标准的构建  
*Establishment of Cleaner Production Standards in Shipbuilding Industry*  
马 强, 任 威, 林建国, 宋新刚, 李 巍 (118)