

目次 Contents

综述

水下滑翔机的研究现状与面临的挑战
Research of Current Situation and Future Challenges of Underwater Glider
温浩然, 魏纳新, 刘飞 (1)

LNG 燃料的船对船 (STS) 加注技术研究
Research on LNG Ship to Ship (STS) Bunkering Operations
徐建勇, 范洪军, 吴顺平, 石国政 (7)

基于 R-Lay 的硬质管线铺管船的发展
Development of Pipelay Vessels for Rigid Pipeline Based on R-Lay
张印桐, 张新明, 梁富浩 (11)

新型折流板装置发展综述及其拓扑优化研究
Development of New Blast Deflector and Research of Its Topology Optimization
李昶, 邱旭, 任明其 (15)

船舶原理、船舶设计与船舶结构

基于母型船的船体线型优化设计研究
Research on Optimization of New Hull Shape Based on Parent Hull Form
孙存楼, 徐炳香, 韩文玉 (20)

基于纵弯曲强度可靠性分析的船舶中剖面优化
Optimization of Mid-ship Section Based on Reliability Analysis of Longitudinal Bending Strength
张清越, 江雨岑 (24)

基于 CFD 的三体船侧体布局阻力研究
Resistance Research of Alternative Layouts of Trimaran Based On CFD
周广利, 艾子涛, 邓锐, 黄德波, 刘桂杰 (27)

一种计及姿态变化的船舶阻力预报方法
Approach of Ship Resistance Prediction with Consideration of Hull Gesture
郭春雨, 王恋舟, 赵庆新, 吴铁成 (31)

基于纵倾调整的集装箱船实际海域航行阻力减少的研究
Research on Resistance Reduction of a Container Ship at Actual Sea Based on Trim Adjustment
毛文雷, 马宁, 顾解仲 (35)

不同流向下低质量比方形四立柱涡激运动特性研究
Research on Vortex Induced Characteristics of Four Square Columns with Low Mass Ratio under Different Flow Approach
谷家扬, 蒋汝斌, 渠基顺 (40)

船舶搁浅于台型礁石场景极限强度解析预报方法
Ultimate Strength Prediction Analysis of Ship Hull Structure in a Shoal Grounding Accident Scenario
孙斌, 胡志强, 王晋 (45)

船舶机械

基于速度势迭代的面元法预报对转桨性能
Surface Panel Method based on Potential Iteration to Predict the Performance of Contra-rotating Propeller
苏玉民, 冯君, 刘业宝, 曹建 (50)

高原环境下喷孔夹角对某增压柴油机性能影响的数值模拟与分析
Numerical Simulation and Analysis of Influence of Nozzle Hole

Cone Angle on Turbocharged Diesel Engine at High Altitude
徐华平, 陆锦华, 姚宏伟, 韩小林 (54)

船用 SCR 系统的设计与数值优化
Design and Optimization of Marine SCR System
刘少俊, 黄泉水, 蒋爱民, 刘勇, 王昭辉, 李浩 (58)

侧推减阻降噪装置设计与应用探索
Exploration of Design and Application of Side Thruster Tunnel Door
宋现明, 赵日定, 蒲莉 (62)

蒸汽管道孔口泄放流量工程计算方法探究
Research on Engineering Calculation Method for Flow of Steam Pipes Discharge Orifice
林金国, 童小川, 李家乐, 曾小林 (65)

船舶电气、导航与自动化控制

动力定位船控位能力计算软件平台构建研究
Research on Setting up DP Capability Calculation Software Platform for DP Vessels
张法富, 刘波, 杨辉 (69)

并行扩展卡尔曼滤波的船舶模型参数辨识研究
Parallel EKF Identification Methods for Mathematics Model of Ship
丁彦侃, 俞孟蓁 (72)

基于 AIS 和 ECDIS 的人员落水应急报警与示位系统的研发
Research and Development of Man Overboard Emergency Alarm and Position-indicating System Based on AIS and ECDIS
柯冉绚, 周杏利, 黄鹏飞 (75)

数字化造船

基于本体的船舶机舱布置设计方法研究
Research on Marine Engine Room Layout Design Based on Ontological Modeling Method
程宏佳, 李楷, 林焰, 纪卓尚 (79)

知识规则的可信度在游艇产品配置系统中的应用研究
Application of Credibility of Knowledge Rule on Yacht Product Configuration System
蔡薇, 胡敏, 戴修建, 冯军 (83)

海洋工程

自升式钻井平台倒 K 型桩腿结构优化设计
Optimum Structural Design of Jack-up Reverse K-type Leg
唐文献, 钱浩, 张建, 曹俊, 唐振新, 秦文龙 (87)

螺旋侧板的高度对 VIV 影响的 CFD 分析
CFD Analysis on Effectiveness of Height to Helical Strakes in Suppressing VIV
孙丽萍, 王亚非, 吴梓鑫 (91)

ROV 近底行走装置水平面动力学建模及稳定性分析
Dynamic Modeling and Stability Analysis of Sled Device of ROV in Horizontal Plane
王冠达, 葛彤, 赵敏, 邓春楠 (95)

造船管理

我国造船企业竞争力研究
Research on Competitiveness of Our Shipbuilding Enterprises
何育静, 刘树青 (100)