



目次 Contents

《船舶工程》2019年 第41卷 第6期

专题：海洋新能源

剪切流对潮流能水平轴水轮机水动力性能的影响
Influence of the Shear Flow on the Hydrodynamic Performance of the Horizontal Axis Tidal Current Turbine
荆丰梅, 陈鹏, 马伟佳 (1)

计及叶片载荷的双机对转式海流发电机系泊系统动力分析
Mooring Dynamics Analysis for Two-machine Counter-rotating Current Turbine Accounting for the Blade Load
卜凡, 余龙, 李航 (6)

振荡浮子式波浪发电装置的水动力分析
Hydrodynamic Analysis of Oscillating Floating Wave Generator
张大朋, 朱克强, 徐庭留, 于春令, 舒海平, 单海烽 (13)

船舶设计、船舶结构和性能

自航自升式风电安装船总体设计
General Design for Self-elevating and Self-propelled Wind Power Installation Vessel
甄义省, 鄂卡佳, 董波 (18)

带阻流板和水平翼的高速深V型复合艇新构型
New Configuration of High Speed Deep V Composite Boat with Interceptor and Horizontal Fin
朱锋, 陈嘉伟, 何术龙 (24)

舰船稳性与破损稳性要求
Requirements of Ship Stability and Damage Stability
夏齐强, 朱韬, 朱军 (30)

基于可靠性方法的大型集装箱船极限强度验证
Ultimate Strength Assessment of VLCS Based on Reliability Method
刘慧泉, 师桂杰, 罗秋明, 王辉 (36)

基于RBF神经网络的全船结构载荷平衡调整方法
Load Equilibrium Adjustment Method of Whole Ship Structure Based on RBF Neural Network
袁磊, 张少雄, 卞泽坤, 吴熙 (39)

船舶动力、推进装置和辅机设备

惯容器对船舶舱室低频隔振效果的影响
Influence of Inerter on the Low Frequency Vibration Isolation Effect of Ship Cabin
李阳, 温华兵, 张坤, 刘伟, 谭飞 (43)

磁悬浮离心压缩机支承特性参数辨识及低频故障
Parameter Identification and Low-frequency Fault of Bearing Characteristic in Maglev Centrifugal Compressor
张小波, 张芳, 龚高 (48)

利用LNG冷能的船舶冷库与空调系统设计与分析
Design and Analysis of Marine Refrigerator and Air Conditioning System Based on LNG Cold Energy
黄兴旺, 李博洋, 胡德栋, 陈兰树, 杨桑宇 (54)

船用螺旋桨静平衡检测的新型装置及算法
The New Device and Algorithm Static Balance Detection for Marine Propeller
王海涛, 张胜文, 马欣, 方喜峰 (58)

船舶电气、通信设备及自动控制

含大功率脉冲性负荷的船舶供电系统设计
Design of Ship Power Supply with High Power Pulsed Loads
吴骏, 方世源, 吴国栋, 庞宇, 周志凤 (63)

基于双同步坐标的无刷双馈船舶轴带发电控制系统
Brushless Doubly-Fed Ship Shaft Generation Control System Based on Dual Synchronous Coordinates
张小海, 丁峰, 邹雁龙 (72)

一种半潜式支持平台靠泊路径跟踪控制方法
A Method of Berthing Path Tracking Control for Semi-submersible Platform
张灿家, 杨奕飞, 苏贞 (80)

基于FPGA的多通道自适应频率测量方法
Measurement Method of Multi-channel Self-adapting Frequency Based on FPGA
缪凯祥, 石磊, 王刚毅, 刘彬 (86)

汉江中下游多枢纽航道系统堵航风险仿真
Waterway Congestion Risk Simulation of Multi-lock Fairway on the Middle and Lower Reaches of Hanjiang River
樊奇东, 邓健 (91)

船舶材料、制造工艺与管理

激光电弧复合焊接工艺在邮轮上的应用
Application of Laser Arc Hybrid Welding Technology in Cruise Ship
余玮 (96)

SDBS对海洋工程用铝合金表面微弧氧化膜组织和性能的影响
Effects of SDBS on the Microstructures and Properties of Micro-arc Oxidation Coating on Aluminum Alloy Surface for Marine Engineering
沈雁, 谢荣, 王红星 (101)

绿色船舶

基于鳍片式热电模组的船舶柴油机废气余热利用及其影响因素
Waste Heat Utilization and Influencing Factors of Marine Diesel Engine Based on Fin Thermoelectric Module
牛牛, 杨祥国, 吴书礼, 许轶哲, 蔡乐 (106)

船舶压载水管内取样方案分析
Analysis of Sampling Scheme in Ballast Water Pipe for Ship
许天羽, 张泽凌 (111)

TiO₂/氧化石墨烯光催化膜灭活船舶压载水中微绿球藻的有效性
Effect of TiO₂/Graphene Oxide Photocatalytic Membrane on Killing Micro-green Chlorella in Ballast Water of Ships
黄梁, 周菊枚 (115)

海洋工程

深水半潜式平台大型生活区结构强度
Structural Strength of Large Living Quarters for Deepwater Semi-Submersible Platform
饶鑫, 周佳, 薛鸿祥, 王璞, 唐文勇 (119)

仿生蛋形封头屈曲对比
Buckling Comparison of Biomimetic Egg-Shaped Head
王黎辉, 郭家欣, 朱本义, 王雪, 赵薇 (125)

深水管中管结构动态边界条件非线性时域分析
Deep Water Pipe-in-pipe Structural Response Analysis with Dynamic Boundary Conditions in Nonlinear Time Domain
张俊斌, 金颖, 张鹏, 马金生, 段梦兰 (129)