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   Disciplina   624

   Soggetti   Marine engineering

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Note generali   "A Balkema book."

   Nota di bibliografia Includes bibliographical references.

   Nota di contenuto   Front Cover; Table of contents; Preface; Organisation; Ship traffic;
                        Maritime situational awareness indicators based on AIS and MONICAP
                        information; Intelligent guidance in collision avoidance of maritime
                        transportation; The importance of satellite-based vessel monitoring
                        system (VMS) for fisheries management: A case study in the Portuguese
                        trawl fleet; An algorithm for minimum-time ship-routing for the North
                        Indian Ocean region; Analysis of maritime traffic off the coast of
                        Portugal; Ship design; Experimental study of the performance of a rigid
                        wing sail
                        Considering disabled people in sailing yacht designHull shape design of
                        a compressed natural gas ship; Short sea shipping route and stowage
                        plan optimization; Non-linear optimization applied to preliminary ship
                        design; Planning a fleet of containerships for a given set of ports;
                        Design development of an oil and garbage collector and boom layer
                        vessel; Generation of an adaptive triangular mesh from a parametric
                        surface; Ship propulsion & control; Controllable pitch propeller control
                        with neural network algorithm
                        Conversion of large-bore diesel engines for heavy fuel oil and natural
                        gas dual fuel operationConditioned maintenance - predictive analysis
                        in maritime propulsion engines; A nonlinear control approach for a
                        vessel steering system; Onboard systems; Broadband communications
                        with adhoc networks - case study with simulated scenarios; Bridge
                        officer decision support tool; Decision support system for the safe

operation of fishing vessels in waves; Ship dynamics and hydrodynamics; Prediction of the motions of fishing vessels using time domain 3D panel method

Influence of sea currents on manoeuvring of a surface autonomous modelInteraction of gravity waves with moored flexible floating membrane; Review of model test techniques of local slamming on ships; A static analytical method for the preliminary design of multiple line mooring systems; Estimation of hull bending moment and shear force from ship motions using neural networks; Wave frequency dynamics of a tanker moored inside the port; Experiment and time domain method comparison for the responses of a containership induced by the three sisters' abnormal waves

Dynamic analysis of a purse seiner and a trawler fishing vessels in the Portuguese coastal zoneShip hydrodynamic interaction forces in restricted waters; Ship structures; Influence of boundary constraints on the residual stresses and deformations in a high strength steel plate after welding; Innovation protecting ballast tanks of new ships against corrosion: An IMO PSPC-compliant Portuguese-born new coating concept; Analysis of the fluid-structure interaction of a composite motor yacht; Structural reinforcement study of a floating dock mooring structure using FEM software

Numerical investigations to study the effect of weld parameters on the temperature-time history in steel plates

Sommario/riassunto	Maritime Engineering and Technology includes the papers from the 1st International Conference on Maritime Technology and Engineering (MARTECH 2011, Lisbon, Portugal, 10-12 May 2011). MARTECH 2011 was held to commemorate 100 years of the Instituto Superior Tecnico (IST) in Lisbon, and the contributions in the present volume reflect the internationalization of the maritime sector and its activities. The book is divided into 9 main subject areas: Ship Traffic, Ship Design, Ship Propulsion and Control, Onboard Systems, Ship Dynamics and Hydrodynamics, Ship Structures, Risk and