

CONTENTS

Strength Analysis with Variation of Construction Transverse Watertight Bulkhead On Ship Container 8842 DWT Using Finite Element Method <i>Amalia Ika Wulandari, Suardi, Alamsyah, Aknul Ciptiandi</i>	109
Effects of Collision with a Self-Propeller Oil Barge Ship on a Navigational Buoy <i>Wilma Amiruddin, Ahmad Firdhaus, Hartono Yudo, Firmansyah Aulia Rakhman</i>	117
Strength Analysis of LCT Lady Primus 39.5 m Ramp Door Structure Due to Changes in Tilt Angle Variations and Load Variations <i>Hartono Yudo, Kiryanto, Alji Fadilla Adha, Riyanto Wibowo</i>	124
Multi-Mold Design For Fishing Boats Southern Coastal Region Of Java <i>Budianto, Priyambodo Nur Ardi Nugroho, Ruddianto</i>	133
Hydrodynamic Model Simulation at the Port of Tanjung Rhu Belitung <i>Sujantoko, Pramudya Adhi Pangestu, Dony Saputra, B. P. Putra Ekianto, Hasanudin, Nani Kurniati, Rindi Kusumawardhani, Dody Hartanto</i>	141
Flettner Rotor Modification through Adding Ridges and Fins with Results Comparison to Base Model <i>Nowar Deeb, Achmad Baidowi, Adi Kurniawan</i>	150
Design a Phinisi-Type Tourist Ship to Increase Tourist Interest in Vacationing at Taka Bonerate National Park <i>Suardi, Adhy Rahmat, Wira Setiawan, Muhammad Uswah Pawara, Alamsyah, Andi Mursid Nugraha Arifuddin, Taufik Hidayat</i>	161
Systematic Review of Solar and Wind Power Plants for 14-Meter Fishing Boats <i>Nanang Setiyobudi, Agoes Santoso, Eddy S. Koenhardono, Achmad Baidowi, Dian Purnamasari, Teguh Muttaqie, Muryadin, Fariz M. Noor, Ari B. Setiawan, Ari Kuncoro, Zarochman</i>	167
Motions Analysis Investigation of a 12 Meter Catamaran Tourism Boat on Passenger Comfort Criteria Case Study "MV Garuda Ngelayang" <i>Yeddid Yonatan Eka Darma, Hery Inprasetyobudi, Rochmad Eko Prasetyaning Utomo, Galih Hendra Wibowo, Ahmad Hidayat, Albert Daniel Saragih</i>	179
Delays Analysis Of TRANSKO Tawes 11.3 DWT Mooring Boat Development Project Based On Risk Management <i>Imam Pujo Mulyatno, Samuel, Feri Adi Mukhlisin, Syaiful Tambah Putra Ahmad</i>	191
Numerical Investigation of the Laying of Airbag Arrangements on Launching Barges <i>Alamsyah, Christian Hendra Gonawan, Rodlian Jamal Ikhwani, Taufik Hidayat, Habibie, Wardina Suwedy</i>	202



**INTERNATIONAL JOURNAL OF MARINE ENGINEERING
INNOVATION AND RESEARCH**

VOL. 8, NO. 2

JUNE 2023

Biodiesel Potentials of Waste Cooking Oil (WCO): Production, Content of Fuel Properties, and Effects on Engine Performance <i>Suardi, Doddy Suanggana, Basri Said</i>	213
Leading Edge Modification of NACA 0015 and NACA 4415 Inspired by Beluga Whale <i>James Julian, Waridho Iskandar, Fitri Wahyuni</i>	222
Experimental Study of Wave Reflection on A-Jack Armor Unit on Seawall Structure <i>Sujantoko, Pramudya Adhi Pangestu, Widi Agus Pratikto, Mahmud Mustain, Wahyudi, Hasan Ikhvani</i>	232
Analysis of Docking Space Availability in One Web-Based Application for Shipyards in The Samarinda Region <i>Dewi Sartika, Eng. M. Badrus Zaman, Nurhadi Siswantoro</i>	239
Numerical Study of Kaplan Propeller by Using CFD: Effect of Angle and Blade Diameter Variations <i>Mohammad Danil Arifin, Frengki Mohamad Felayati, Muswar Muslim, Ayom Buwono, Yeddid Yonatan Eka Darma</i>	251
Redesigning a 300 ft Barge as a Floating Hotel to Support Tourism in the Thousand Islands <i>Augustinus Pusaka, Erwin Gunawan, Fanny Octaviani</i>	261
Performance Analysis of a Point Absorber Wave Energy Converter in Nigerian West Coast; Gulf of Guinea <i>Orji Charles U, Oyegbemi K.Olayinka, Ibiba Douglas</i>	272
The Influence of SMAW Welding Current Variation on Tensile Strength, Corrosion Rate, and Microstructure of ST 42 Steel for Inner Bottom Plate Material in Ships <i>Parlindungan Manik, Deddy Chrismianto, Putranda Firman Prayoga</i>	279
Stability Analysis of Double Axis Retractable Solar Panel Mechanism for Harbour Tug Application <i>Danang Cahyagi, Sapto Wiratno Satoto, Ihsan Musyary, Haris Susmana, Ranjit, Wanda Cantika Putri, Muhammad Regie</i>	289
Fatigue Life Analysis of FSO Mooring Chain by Considering the Effects of Offloading Load <i>Hafizh Muhammad Naufal Shidqi, Nur Syahroni, Daniel Mohammad Rosyid, Dewinta Putri Cahyaningtyas</i>	295
Fatigue Life Analysis of FSO Anchor Chain with Corrosion Effect <i>Dewinta Putri Cahyaningtyas, Nur Syahroni, Rudi Walujo Prastianto, Eko Budi Djatmiko, Murdjito, Hafizh Muhammad Naufal Shidqi</i>	310



**INTERNATIONAL JOURNAL OF MARINE ENGINEERING
INNOVATION AND RESEARCH**

VOL. 8, NO. 2

JUNE 2023

Joint Types of Keel and Frame of Wooden Boats Built with Modular System <i>Akhmad Basuki Widodo, Mochammad Arief Sofjanto</i>	324
Effectiveness of Adding Different Types of Vitamin C in Improving the Quality of Artemia Salina sp. <i>Ajeng Sukmasari, Nuhman, Ninis Trisyani</i>	330
Photovoltaic-Based Electric Tourist Boat Design to Support Island Tourism at the Labuan Bajo <i>Putra Pratama, Mohammad Danil Arifin</i>	337
The Flexural Strength and Impact Toughness of Bamboo Reinforced Latex-Asphalt Composite <i>Frisko Yulian Maheswara, Akhmad Basuki Widodo, Bagiyo Suwasono</i>	345
Analysis of Performance Losses Related to Shaft Angle on Fishing Boats Using the Free Running Model Test Method <i>Aang Wahidin, Rachmad Tri Soelistijono, Fitri Hardiyanti, Lilik Subiyanto, Gaguk Suhardjito, Subagio So'im</i>	351
Study of Variation of Binder Materials On Permeability Of Foundry Green Sand <i>Widya E. Primaningtyas, Farizi Rachman, Tisya P. Ramadhani, Aminatus Sa'diyah</i>	360
Influence of Slat Size Variation as Passive Flow Control Instruments on NACA 4415 Airfoil Toward Aerodynamic Performance <i>James Julian, Rizki Aldi Anggara, Fitri Wahyuni</i>	367
Hydrostatics Curve Approach as a Design Development of Fishing Canoe With Bilge Keel to Improve Rolling Period <i>Bima Ramadhani, Yeddid Yonatan Eka. Darma, I.G.N.A Satria Prasetya, Mohammad Danil Arifin</i>	376

