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Stability and total resistance analysis of catamaran fishing boat for Java North Sea area with hullform model and fishing gear variation

[Kiryanto](#); [Ridwan, Mohammad](#); [Adietya, Berlian Arswendo](#); [Chrismianto, Deddy](#); [Sasongko, Sri Hartanto Aji](#)[Save all to author list](#)^a Department of Naval Architecture, Engineering Faculty, Diponegoro University, Indonesia2 ³¹th percentile
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Substitution of cantrang fishing gear with other gears might give bad impact to the stability of the ship. But, catamaran boat type can improve the intended stability characteristics. The study was conducted using six variations of the catamaran hullform, namely symmetrical hull, asymmetrical straight inside hull, asymmetrical straight outside hull, which is each model has round bilge and hard chine variation. The study aims to find the lowest total resistance value. The hullform with lowest total resistance will be re-varied to 3(three) different types of fishing gear, namely cantrang, purse seine, and bottom longline for stability analysis. The result shows that the round bilge symmetrical hull type has smallest resistance with value of R_t is 8.81 kN at 8 knots. Based on IMO MSC.36(63), the result of stability analysis shows all variations of fishing gear meet the established standard. © IAEME Publication.

Author keywords

Bottom Longline; Cantrang; Purse Seine; Resistance; Seakeeping; Stability

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Volume 10, Issue 1, January 2019 , Articles Published : 211

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Article Id : IJMET_10_01_001 (https://iaeme.com/Home/article_id/IJMET_10_01_001), Pages : 1-7

INTERNATIONAL JOURNAL OF MECHANICAL ENGINEERING AND TECHNOLOGY (IJMET), (<https://iaeme.com/Home/journal/IJMET>)Volume.10, Issue.1, January 2019

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DOI: <https://doi.org/10.34218/IJMET.10.1.2019.001> (<https://doi.org/10.34218/IJMET.10.1.2019.001>) 214

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Nabil Jamil Yasin (https://iaeme.com/Home/author_details/80250) ; Kadhum Audaa Jehhef (https://iaeme.com/Home/author_details/80251) ; Ayad S. Abedalh (https://iaeme.com/Home/author_details/80252)

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Salim J.A (https://iaeme.com/Home/author_details/79046) ; Waseem S.A
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Article Id : IJMET_10_01_005 (https://iaeme.com/Home/article_id/IJMET_10_01_005), Pages : 52-61

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Michael Simon (https://iaeme.com/Home/author_details/1683) ; Abba Suganda Girsang
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Article Id : IJMET_10_01_006 (https://iaeme.com/Home/article_id/IJMET_10_01_006), Pages : 62-68

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Talib Abdulameer Jasim (https://iaeme.com/Home/author_details/79024) ; Hussein F. Mahdy (https://iaeme.com/Home/author_details/79025) ; Ahmed Saleh Al Graite (https://iaeme.com/Home/author_details/79026) ; Ali H. Hallem (https://iaeme.com/Home/author_details/79027)

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CUSTOMER EXPERIENCE MANAGEMENT: AN EMPIRICAL EVIDENCE OF FUNCTIONAL CLUES AND ENGINEERING STUDENT'S LOYALTY

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ABSTRACT

This paper empirically investigates the influence of functional clues as a strategy of customer experience management on engineering students' loyalty within the context of higher education in Nigeria. The basic purpose of this paper was to examine if the application of marketing strategies can be applied by higher institutions in order to satisfy their student and turn them to advocate of their brands/service. To achieve this objective, a total of 215 copies of the questionnaires were retrieved from engineering student of a private university adjudged to be the best in Nigeria. Multi-stage sampling techniques were employed in this study. Using the Categorical Regression CATREG analysis, the study found that functional clues have positive influence on engineering students' loyalty to the university. Relying on this finding, the study therefore recommended among other things that the university management should adopt customer experience management as a strategy to build student loyalty and also concentrate their efforts on the improvement of functional clues by focusing more on the development of the competences of their lecturers and implement the strategy in order to gain repeat patronage of their students for further studies.

Keyword: Customer, Experience, Functional clues, Student, Loyalty, Higher Education.

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STABILITY AND TOTAL RESISTANCE ANALYSIS OF CATAMARAN FISHING BOAT FOR JAVA NORTH SEA AREA WITH HULLFORM MODEL AND FISHING GEAR VARIATION

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ABSTRACT

Substitution of cantrang fishing gear with other gears might give bad impact to the stability of the ship. But, catamaran boat type can improve the intended stability characteristics. The study was conducted using six variations of the catamaran hullform, namely symmetrical hull, asymmetrical straight inside hull, asymmetrical straight outside hull, which is each model has round bilge and hard chine variation. The study aims to find the lowest total resistance value. The hullform with lowest total resistance will be re-varied to 3(three) different types of fishing gear, namely cantrang, purse seine, and bottom longline for stability analysis. The result shows that the round bilge symmetrical hull type has smallest resistance with value of R_t is 8.81 kN at 8 knots. Based on IMO MSC.36(63), the result of stability analysis shows all variations of fishing gear meet the established standard.

Keywords: Resistance, Stability, Seakeeping, Cantrang, Purse Seine, Bottom Longline.

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1. INTRODUCTION

The Java North Sea is a famous area for fishery resources with a coastline of 502.69 km. Sloping beach conditions and relatively calm sea conditions make the java north sea area as a center of fish catching for fishermen in Indonesia. The issuance of Ministry of Marine Affairs and Fisheries Regulation No. 2 of 2015 and No. 71 of 2016 concerning the prohibition of the



PREPARATION OF NEW ALUMINUM MATRIX COMPOSITE REINFORCED WITH HYBRID NANO REINFORCEMENTS Fe_2O_3 AND Al_2O_3 VIA (P/M) ROUTE

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ABSTRACT

Nanocomposites are materials fabricated from two or more materials with different mechanical and electrical properties. Combining these materials produce a new designed material with new and better properties differ from the individual components. In recent years nanocomposites have been developed and employed almost in all industries. The current study deals with fabricating a hybrid composite (when there are a minimum of three materials, the composite is called as hybrid composite). Pure aluminum 99.6% as the base matrix and Iron oxide Fe_2O_3 (alpha) and aluminum oxide Al_2O_3 (alpha alumina). Fe_2O_3 weight percentage (wt%) is varied (1.5, 2.5 and 5% by weight) and the wt% of Al_2O_3 is held constant (2 wt%). The new designed nanocomposite was produced using Powder Metallurgy (P/M) method. This method has been widely used for fabricating aluminum matrix composites (AMCs) due to it is low costs and gives high accuracy as well as the ease of using. The matrix used was aluminum powder with an average particle size of (60 μm) with 99.6% purity and Fe_2O_3 (99% purity and 30 nm particle size) and Al_2O_3 with (99.5% purity and 14-20 nm particle size). The experimental results revealed that the microstructure images of composites showed uniformly distributed of Fe_2O_3 and Al_2O_3 in aluminum matrix. The maximum compressive strength (CS) and hardness (HV) are 152 MPa and 47.2 respectively in composite containing (1.5 Fe_2O_3 + 2 Al_2O_3) wt%. The improvement percentage was recorded to be 30% and 18.5% for CS and HV respectively. The electrical properties of the composites were enhanced due to addition the nanohybrid Fe_2O_3 + Al_2O_3 nanomaterials. The maximum conductivity was observed in composite including (1.5% Fe_2O_3 + 2% Al_2O_3) which is equal to 69521 ($\Omega \cdot m$)⁻¹ while the zero nano exhibited 1170 ($\Omega \cdot m$)⁻¹. Also the conductivity for all composites are higher than that of matrix. The conductivity increased with increasing the frequency

Keywords: hybrid nanocomposites, powder metallurgy, compression tests, conductivity and resistivity.