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Investigation of stability criteria of Batang type traditional fishing boat under 25 m for safety at sea

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Abstract

In this study, will be analyzed regarding the stability of the Batang type traditional fishing boat under 25 m is widely available in Indonesia already meet safety requirements seagoing or not, given the fishing boat of this type was developed traditionally by fishermen, where the resulting design is not planning through design phase, so often a ship that has been made does not have a reliable technical specifications. To solve this problem, the survey to retrieve data from 5(five) different types of traditional fishing boat below 25 m at Kabupaten Batang are carried out, then do redrawing of the existing ship, and finally the technical analysis of the design of the traditional fishing vessel for stability criteria is done. The recommendations for the design of traditional fishing boat under 25 m are given in this study corresponding safety criteria seagoing so beneficial to the safety of fishermen doing fish catching in the sea. © IAEME Publication.

Author keywords

Safety criteria; Ship stability; Traditional fishing boat

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INVESTIGATION OF STABILITY CRITERIA OF BATANG TYPE TRADITIONAL FISHING BOAT UNDER 25 M FOR SAFETY AT SEA

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ABSTRACT

In this study, will be analyzed regarding the stability of the Batang type traditional fishing boat under 25 m is widely available in Indonesia already meet safety requirements seagoing or not, given the fishing boat of this type was developed traditionally by fishermen, where the resulting design is not planning through design phase, so often a ship that has been made does not have a reliable technical specifications. To solve this problem, the survey to retrieve data from 5(five) different types of traditional fishing boat below 25 m at Kabupaten Batang are carried out, then do redrawing of the existing ship, and finally the technical analysis of the design of the traditional fishing vessel for stability criteria is done. The recommendations for the design of traditional fishing boat under 25 m are given in this study corresponding safety criteria seagoing so beneficial to the safety of fishermen doing fish catching in the sea.

Key words: Ship stability, traditional fishing boat, safety criteria.

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1. INTRODUCTION

With these conditions, it would require a lot more fishing boats to catch it. While in Indonesia the average small size of the fishing boats under 25 m, and still is developed traditionally by the craftsmen of traditional vessels that have recognized expertise and experience in building a ship. However, because in terms of ship design that still rely on intuition, then design produced not through planning and calculation of a comprehensive picture, which often occurs ships that have been made do not have a reliable technical specifications and safety seagoing not be protected properly.

A study of the safety of sailing and efficiency of fishing boat states that the average fishing boats often have impaired at sea, be it damage even drowned because stability is not good, and only a few fishing boats that managed to take a trip with a success each year, Peyelesaian key issue here is the need for a competent technical attention to design [1]. At this time most small

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INTERNET OF THINGS AS A TOOL FOR DEVELOPMENT OF RUSSIA'S DIGITAL ECONOMY

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ABSTRACT

In the modern world, the technologization of various spheres of life is becoming a growing trend. The consumer properties of goods are radically changing. The article examines the emergence, the dynamics of the growth and the development prospects for technologies, related to the concept of the "Internet of things" along with the development specifics of the "Internet of things" concept as one of the drivers of the fourth industrial revolution.

Keywords: Internet of things, digital economy, digitalization, Internet, modern technologies.

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MODELING OF BIOSORPTION OF PB(II) AND ZN(II) IONS ONTO PAMRH: LANGMUIR, FREUNDLICH, TEMKIN, DUBININ-RADUSKEVICH, JOVANOVIC, FLORY-HUGGINS, FOWLER-GUGGENHEIM AND KISELEV COMPARATIVE ISOTHERM STUDIES

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ABSTRACT

Biosorption of Pb2+ and Zn2+ onto Phosphoric Acid Modified Rice Husk (PAMRH) was carried out. The equilibrium adsorption data of Pb2+ and Zn2+ for initial concentration ranging from 10 – 200 mg g-1 were fitted into Langmuir, Freundlich, Temkin, Dubinin-Raduskevich, Jovanovic, Flory-Huggins, Fowler-Guggenheim and Kiselev isotherm models. The comparative isotherm studies however, unraveled the adsorption capacities of PAMRH and a great affinity of the adsorbent (PAMRH) for Pb2+ than Zn2+. The studies showed that the adsorption