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Optimization procedure to determine the optimum propeller of traditional purse seine boat

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Abstract
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Abstract

Design of B-series propeller was made to improve the performance of traditional purse seine boat in Central Java Indonesia , [1]. The optimum B-series design should be determined from any kind design configurations of the B-series propeller . The aim of this article was to introduce the optimization procedure for determining the optimum design parameters of B-series propeller that would be applied for the improvement of thrust performance of traditional purse seine boat in Central Java Indonesia . The single objective function is adopted with the constraint parameters includes material strength, propeller cavitation and the propeller thrust requirement. Propeller Speed, Diameter and Pitch Ratio are selected as Independent Variables. © IAEME.

Author keywords

Flexible model and propeller efficiency; GFRP propeller

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OPTIMIZATION PROCEDURE TO DETERMINE THE OPTIMUM PROPELLER OF TRADITIONAL PURSE SEINE BOAT

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ABSTRACT

Design of B-series propeller was made to improve the performance of traditional purse seine boat in Central Java Indonesia, [1]. The optimum B-series design should be determined from any kind design configurations of the B-series propeller. The aim of this article was to introduce the optimization procedure for determining the optimum design parameters of B-series propeller that would be applied for the improvement of thrust performance of traditional purse seine boat in Central Java Indonesia. The single objective function is adopted with the constraint parameters includes material strength, propeller cavitation and the propeller thrust requirement. Propeller Speed, Diameter and Pitch Ratio are selected as Independent Variables.

Key words: GFRP propeller, flexible model and propeller efficiency.

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THE INFLUENCE OF BLANKHOLDER GAP ON DEEP DRAWING PROCESS USING FINITE ELEMENT METHOD

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ABSTRACT

The aim of use blankholder gap (BHG) is to regulate the flow of material in the cavity of the die. In this paper, the effect of blankholder gap on parameters of process such as forming load, strains and stress distributions and occurrence of wrinkling in the cup wall were analyzed numerically. Finding thebest BH gap for the die and the material which use in this study. Different values of (BHG) to arrange (0.5 -3 mm) were used and also without (BHG). 3D model of deep drawing was used and analyzed based on FEM. The best forming distance for the blankholder is between 1 to 1.5 times sheet thickness. The results showed that when the gap is larger than 0.75 mm, the wrinkles will occur and the drawing force increased.

Key words: deep drawing, blank holder gap, wrinkling, FEM..

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1. INTRODUCTION

Deep drawing is an important process of sheet metal forming. In this process, a flat sheet is drawn by punch into the die cavity to produce a cup without localized thinning or fracture. Producing successful parts not rely on the sheet material only but on the die contact situation (workpiece-die set). The parameters of die design, which affect the failure or success of the forming process, are the die radii and punch, a clearance between die set, lubricant and the resistance mechanism to metal flow, such as blankholder gap (BHG), blankholding force (BHF), and draw bead. As the sheet is radially drawn inwards, the flange subjected to radial tension and circumferential compression then later may occurring of wrinkling on the flange, if the drawing hight are big, or if the high ratio of diameter to thickness. a blankholder generally applied appropriate pressure on the sheet to wrinkling preventing [1,2]. Thus, it is important to overcome this drawback in deep drawing process. many studies on control of blankholder in sheet stamping have been executed in the last years. Kenichi *et al* [3] presented a combination of a control system employ blankholder fuzzy control and punch speed for the

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FUZZY OPTIMIZATION TECHNIQUE IN INVENTORY COST MINIMIZATION

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ABSTRACT

With the emerging trend of green supply chain management, supplier selection and order allocation based on green criteria have become very important in this competitive world. During the selection process of the eligible suppliers, qualitative as well as quantitative factors should be considered multi criteria is applied in choosing the supplier cum reclaimers. inventory cost minimization is done using fuzzy cost data's. The application of the proposed model is conducted in oil reclamation industry

Key words: Supplier selection; transport; Fuzzy sets theory Multi-objective programming.

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1. INTRODUCTION

The transportation problem in general has an objective of minimizing the transportation cost by assigning how much quantity from the respective sources to be dispatched to the various end terminals taking into consideration the units available at the supply centers and the requirement at the customer centers. The source centers (Si) may be production centers, plants, warehouses etc, whereas the customer centers (Dj) may be distributors, wholesale units, retail outlets etc.

If the inventory of the required raw materials is not available in time the production process will be disturbed. On the other hand inadequate stock of finished products gives raise to reputation loss, orders loss etc. hence optimization of inventory levels is a must for smooth and profitable running of organization. Sometimes transportation cost also plays a vital role if

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THE ROLE OF TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING (TVET) IN NATION BUILDING: A REVIEW OF THE NIGERIAN CASE

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ABSTRACT

There is a dearth of artisans in the Nigerian construction industry. Although the Nigerian educational sector is witnessing a proliferation of educational institutions at the primary, secondary and tertiary levels, little attention is paid to Technical and Vocational education training (TVET). Thus, TVET appears to be on the decline. Many of the old technical institutions have closed down while the existing few are constrained by dwindling enrolment of students. This paper through review of literature and interviews of key stakeholders, seeks to identify the important role of TVET and the challenges confronting this sector of the economy. It concludes that TVET has a vital role to play in the national economy especially in production of skilled work force, entrepreneurship development and poverty reduction.

Keywords: Nation building, Nigeria, sustainable development, technical education, vocational training.

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1. INTRODUCTION

Nation building is very critical to the existence of any nation. It is a wide concept, which encompasses national development. According to [1], it is 'about the tangible and intangible threads that hold a political entity together and gives it a sense of purpose.' It involves building institutions like the economy and educational sectors. |It is generally believed that a nation's economic growth can be measured or analysed by the extent to which vocational training is embraced. Technical and vocational education is the training of technically inclined individuals in respective fields who are to eventually become originators, implementers and coordinators of