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GO FAST BOAT: Pros and Cons of a
Planing Hull Resistance Prediction Of

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Planing Hulls State of the Art

This paper is meant as a reference for designers in selecting resistance prediction methods for planing hulls. It describes numerous resistance prediction methods and gives their variable ranges and the type of planing hulls they are based on or are intended for. Inherent problems or limitations of the methods are stated. The concept of hull shape, which is often neglected in resistance prediction, and its important role are discussed.

Resistance Prediction of Planing Hulls: State of the Art ...

In this study, a brief history and basic information have been provided and the following, starting from planing hull resistance prediction methods, prismatic equations, planing hull series and numerical methods and finally empirical methods are

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(DOC) HIGH SPEED PLANING HULLS
RESISTANCE PREDICTION ...

The calm-water resistance of hard chine hulls in the pre-planning regime was predicted by using mathematical model, and the model could be used in the concept design phase. The hydrodynamic of the...

(PDF) Resistance Prediction for Hard
Chine Hulls in the ...

this study, the performance of CFD simulations of planing hulls is evaluated us-ing two commercial software: ANSYS FLUENT, developed by ANSYS, Inc., and STAR-CCM+, developed by CD-adapco. This was done by predicting the steady resistance, sinkage and trim angle of one semi-planing and one planing hull in calm, unrestricted water.

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Prediction of High-Speed Planing Hull
Resistance and ...

resistance prediction of semiplaning hulls were used. Both methods were developed by using regression analysis which was based on the total resistance data for the transom stern hull forms. The total resistance calculated with both methods is compared with measured total resistance for wide range of the Froude number F_n 0.482 3.618

RESISTANCE PREDICTION OF SEMIPLANING TRANSOM STERN HULLS

Abstract. A mathematical representation of calm-water resistance for contemporary planing hull forms based on the USCG and TUNS Series is presented. Regression analysis and artificial neural network (ANN) techniques are used to establish, respectively, Simple and Complex

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mathematical models. For the Simple model, resistance is the dependent variable (actually R/ρ for standard displacement of $\rho = 100000 \text{ lb}$), while the Froude number based on volume ($F_n V$) and slenderness ratio ($L/V^{1/3}$) are ...

Resistance Prediction for Hard Chine Hulls in the Pre ...

Most of planing hulls can be examined as a prismatic because during planing stage, the sections of hull underwater are constant. There are three prismatic resistance prediction methods: Savitsky, Shuford/Brown and Lyubomirov method. The resistance difference between these methods is usually less than 10%.

EVALUATION OF RESISTANCE OF PLANING HULLS IN SMOOTH

new resistance analysis is proposed for a broad range of geometrical parameters

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State Of The Art especially for asymmetrical hulls so that a designer will be able to make a decision regarding powering prediction in the design stage. Finally, the compared resistance

Resistance Prediction for Asymmetrical Configurations of ...

The paper outlines a simple resistance and trim prediction technique for prismatic (constant beam and constant deadrise) planing hulls which can be completed by hand or programmed into software. The ease of the routine and the accuracy of the results make the technique popular and most design houses use it still today.

Hydrodynamic Design of Planing Hulls - DLBA

In general, when deadrise angles of a planing hull with vee-bottom get smaller, trim angle is decreased and the hull rises

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up higher so that it shows good resistance performance. But its vertical motion amplitude in rough water becomes larger, and the course-keeping ability gets worse.

Design of high-speed planing hulls for the improvement of ...

Resistance prediction of displacement hulls Displacement craft generate regular waves that produce wave resistance.

Towing tanks are used to measure this resistance in the model scale and then to transpose the value to full scale.

Resistance_prediction_ogg_mp4
resistance prediction of planing hulls In this study, a brief history and basic information have been provided and the following, starting from planing hull resistance prediction methods, prismatic equations, planing hull series and numerical methods and finally empirical

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methods are (DOC) HIGH SPEED
PLANING HULLS RESISTANCE
PREDICTION

Resistance Prediction Of Planing Hulls
State Of The Art ...

50 knots. The design approach begins with using a reference hull named Model 5631 from a small systematic series of resistance tests at the DTMB. This modeled hull is based on the U.S. Coast Guard 47 ft Motor Lifeboat which is a hard chine, deep V planing hull. Clement's Dynaplane design process was

Design of a High Speed Planing Hull with
- DTIC

The basic coefficients describing the hydrodynamics of planing hulls are the lift and resistance coefficients: C_L

$$C_L = \frac{R}{\rho g \Delta} = 0.0723 \frac{R}{\rho g \Delta} \quad (5)$$

$$C_D = \frac{R}{\rho g \Delta} = 0.0723 \frac{R}{\rho g \Delta}$$

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$B^2(VK^2)$ (6) Here B is the mean of the maximum beam at chines and the chine beam at the transom. VK is the speed in knots.

Initial Hydrodynamic Hull Design for Conventional Fast Vessels

resistance of the planing hull. Judge et al. [24] made a comprehensive study of a high-speed deep-V planing hull form. They conducted model experiments and numerical simulations in both regular and irregular waves, and they focused on the slamming behavior of the planing hull. It is found that the largest slamming occurs in short and steep waves.

Numerical Prediction of the Vertical Responses of Planing ...

drainage body, in reference to the profile of single planing craft with distinctive resistance performance, was redesigned

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State Of The Art into a wave-piercing shape. Total resistance, sinkage, and trim angle of the new model were then predicted by numerical method.

Numerical Prediction of Hydrodynamic Performance of ...

In general, the peculiar difficulty that characterises the resistance prediction of planing hulls is that both its viscous and pressure components are related in a non-linear way to the dynamic lift force and trim moment developed by the complex flow on the hull at high speeds.

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