

Influence of Hull, Foil and Control Parameters on Hydrofoil Hullborne Seaworthiness.

s.n - Jonathan Duffy



Description: -

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Notes: 1

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Hydro

The Valdez Terminal, the pipeline, the North Slope supply, and vessel particulars and operations are discussed; in addition, environmental and legal problems are outlined.

Hydrofoil Design

A brief description of the widening project by Port Weller Dry Docks is presented, followed by some thoughts on the results of the widening and the successful operation of the vessel since returning to service. The difference between the pressure on the top surface and the ambient pressure at the bottom surface will produce a net pressure that will cause the lift. Final touches in the plywood panels finishing before sheathing the hull with fibreglass.

Hydrofoil Applications

The height above deck of hatchway coamings on exposed parts of the superstructure deck should be at least 300 mm. The use of very high pressure water evolved out of that program.

Hydrofoil Design

In Stage I the interaction forces experienced by berthed ships due to the effect of a passing ship were measured using model scale experiments in the Model Test Basin. A typical algorithm output is presented, and its application to two basic types of optimization studies is described.

2.972 How a Hydrofoil Works

The pendulums should be long enough to give a measured deflection, to each side of upright, of at least 15 cm. The Stanley Gray funding will be used to purchase a set of pressure probes for the experiment phase. Jonathan has been involved in developing mathematical models on the above topics to improve the accuracy of ship-handling simulators.

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