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27th Symposium on Naval Hydrodynamics 2008 - Proceedings

Reynolds number boundary layers can be taken into account in a Cartesian grid framework, a case has been set up for model 5415, which utilizes the outer boundary layer velocity solution from a body-fitted RANS solver as the boundary conditions for the immersed surface. Very promising results have been obtained for this case.

Two Phase Level-Set/Immersed-Boundary Cartesian Grid

A Hybrid Boundary Element / RANS Approach to Steady Flows in Naval Hydrodynamics Bill Rosemurgy & Dr. Kevin Maki Dept. of Naval Architecture and Marine Engineering ... boundary layer, wake, and free surface flow around a naval combatant in-sea 2340 model. Technical Report 421, IIHR, 2001.

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Turbulent boundary-layer wall-pressure fluctuations on

4.2 Boundary layer measurements 31 4.2.1 Boundary Layer data 31 ... underwater marine vessels, the Navy is another institution that would greatly benefit from ... Marine Hydrodynamics Laboratory, will be discussed in greater detail throughout the following sections of this report. 5

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