Next Event: Next Friday!

12.05.2023Zoom-ID: 692 6918 101213:00-15:00 CETPassword: BlueFriday

BLUE FRIDAY MARITIME TECH TALK

Potential flow theory based speed-power predictions as an efficient and reliable alternative to model tests and RANS computations

In order to predict the speed-power performance of ships, a potential flow program solving the free surface flow around a hull was extended to take into account viscosity, appendages, propellers and rudders and their respective interactions.

The method was validated against model test results of appended hulls and, more importantly, against the results of full-scale trials. The flow program proved to be a fast and accurate method to predict the speed-power performance of ships, considering the surface roughness of the hull, which is of significant importance.



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