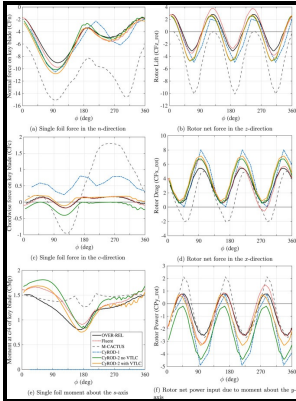


Numerical prediction of propeller performance by vortex lattice method

Institute for Aerospace Studies - Numerical prediction of marine propeller noise in non



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Notes: Bibliographical references : p.90-92.

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Tags: #Tip #vortex #prediction #for #contra

Numerical Prediction of the Performance of Podded Propulsors and Ducted Propellers

Far-field sound radiation is predicted by the formation 1A developed by Farassat, an integral solution of FW-H Ffowcs Williams-Hawkins equation in time domain. Kadoi H, Kokubo Y, Koyama K, Okamoto M 1978 Systematic tests on the SRI-a-propeller. With the introduction of a partial roll-up wake model that is flexible to various cases of propeller geometry and loading condition, this paper presents a vortex-lattice method that can improve propeller performance prediction especially at heavy loading conditions.

Numerical analysis of cavitating propeller and pressure fluctuation on ship stern using a simple surface panel method "SQCM"

The complicated intertwinement of the tip vortices is also investigated.

A Vortex

Maita S, Ando J, Nakatake K 1997 A simple surface panel method to predict unsteady marine propeller performance.

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Directivity prediction on tone noise of propeller operating in non-uniform flows, Chinese Journal of Ship Research, 5 6 : 6—11.

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