Using the surface panel method to predict the steady performance of ducted propellers(PDF)

《船舶与海洋工程学报》[ISSN:1002-2848/CN:61-1400/f] 期数: 2009年04 页码: 275--280 栏目: 出版日期: 2009-12-25

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Title: Using the surface panel method to predict the steady performance of ducted propellers

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关键词: surface panel method; ducted propeller; velocity potential iteration; steady hydrodynamic performance

分类号: -

DOI: -

文献标识码: A

摘要: A new numerical method was developed for predicting the steady hydrodynamic performance of ducted propellers. A potential based surface panel method was applied both to the duct and the propeller, and the interaction between them was solved by an induced velocity potential iterative method. Compared with the induced velocity iterative method, the method presented can save programming and calculating time. Numerical results for a JD simplified ducted propeller series showed that the method presented is effective for predicting the steady hydrodynamic performance of ducted propellers.

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备注/Memo: -

更新日期/Last Update: 2010-05-20