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Author: [ADVANCED](#) | Volume Page

Keyword: |



[TOP](#) > [Available Volumes](#) > [Table of Contents](#) > Abstract

ONLINE ISSN : 1881-1760

PRINT ISSN : 1880-3717

Journal of the Japan Society of Naval Architects and Ocean Engineers

Vol. 6 (2007) pp.215-223

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Estimation of Power Increase in Actual Seas

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(Accepted August 6, 2007)

Summary: An integrated performance of ships is evaluated by using all the performance information of resistance, propulsion, seakeeping, maneuvering and others. One of the evaluation indices is a power increase of ships in actual seas. In this report, detail estimation methods of the power increase by using model experiment data are shown, and the estimated results are presented. These methods include the resistance not only due to waves but also due to winds and weather helm. Based on the results of power increase, it is possible to get significant performance information on the ship as speed drop, ratio of power increase, increase of fuel consumption and cost increase of it. Discussions and proposals are performed to make more advance procedure on this subject.

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To cite this article:

Naito Naito and Miyake Miyake: Estimation of Power Increase in Actual Seas , Journal of the Japan Society of Naval Architects and Ocean Engineers, (2007), Vol. 6, pp.215-223 .

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