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ONLINE ISSN : 1881-1760 PRINT ISSN : 1880-3717

Journal of the Japan Society of Naval Architects and Ocean Engineers

Vol. 5 (2007) pp.143-153

[PDF (1004K)] [References]

The Drift Force Acting on a Floating Body in Waves

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(Accepted January 10, 2007)

Summary: This paper proves Maruo's wave-drift-force and Newman's wave-driftmoment without using the momentum and energy conservation principles. Firstly a method to estimate the surface integral and to linearize the boundary conditions of a freely floating body in waves is proposed. Then Kashiwagi's 1st and 2nd reciprocity relations, i.e. the energy conservation law and the directivity of radiating wave amplitude at a far field respectively for an asymmetric body floating freely in waves proven by Kashiwagi recently, are introduced in three dimension without using Green's 2nd identity. Finally, a reciprocity relation for the drift force and moment is shown.

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To cite this article:

Takashi Tsubogo: The Drift Force Acting on a Floating Body in Waves, Journal of the Japan Society of Naval Architects and Ocean Engineers, (2007), Vol. 5, pp.143-153.

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