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The Drift Force Acting on a Floating Body in Waves(3rd report)

Takashi Tsubogo

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Summary: The previous research provided reciprocal forms to calculate mean wave drift forces of a freely floating body.The reciprocal form in the near field consists of the gradient of velocity potential and its normal derivative on the body surface. In this paper the scheme to calculate the gradient of velocity potential and its normal derivative based on the constant panel method is shown. Then numerical examples and comparison of wave drift forces by Maruo's and Newman's far field method, Pinkster's near field method and present reciprocal form are shown.

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