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The Drift Force Acting on a Floating Body in Waves(2nd report)

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Summary: This paper provides the reciprocal form on wave-drift-force and moment from momentum theory. In the 1st report we has transformed from the pressure integration on the wetted body surface oscillating in regular waves into the reciprocal form at near field, then transformed into the form at far field owing to Green's second identity, and transformed into Maruo's and Newman's formula. Therefore we underwent the cumbersome calculations using the method of stationary phase. But in this paper the start point is the momentum theory and the goal is the reciprocal form. The transformation is easy and simple. The obtained reciprocal form at far field can be transformed into the integration over the wetted floating body surface owing to Green's second identity.

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