

Monika Warmowska
Jan Jankowski
Polski Rejestr Statków S.A., Gdańsk 80-416, al. Gen. Józefa Hallera 126

MODELING OF WATER FLOW ON DECK OF SMALL VESSEL

Summary

Green water moving on deck of small vessel affects its motion and can contribute to the vessel capsizing. The phenomenon is nonlinear and still makes problems in its description using mathematical differential problems. The paper presents the comparison study of two simplified methods describing the water moving on deck and verification possibilities of applying them in practice.

keywords: irregular waves, vessel motion, vessel capsizing, method of shallow water flow, water on deck