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

Journal of the Japan Society of Naval Architects and Ocean Engineers
Vol. 8 (2008) pp.89-106

[PDF (1385K)] [References]

On a Computing Method for Nonlinear Free Surface Flow Causing Spray Ejection

Hajime Kihara

(Accepted August 25, 2008)

Summary: On the numerical simulation using the BEM, the computational disadvantage by dealing with the particular fluid domain due to the jet flow is discussed and the adaptive schemes for robust time-donain computation are proposed.The developed computational models for the jet flow and splash are applicable to the water impact problem of a bow section with an arbitrary shape. Two numerical studies are demonstrated for the validity of the present method through some comparisons with experimental and other computational results.