NUMERICAL STUDY OF DRAG AND LIFT FORCE ON WING IN SURFACE EFFECT AS AN ALTERNATIVE OF 20 PAX CREW BOAT WITH CFD APPROACH

Name : Endah Suwarni
NRP : 4207 100 601
Department : Marine Engineering
Supervisors : Irfan Syarief Arief, ST, MT

Abstract

Travel time of a transport operation to be one consideration in the transportation planning. The faster the time taken, the more efficient when used for various purposes. Likewise with the operation of the ship's boat crew, most of the travel time has a long operational. With the design of wing in surface effect craft has a faster travel time for a cruise speed above 90 knots when the lack of efficient operation of ship crew of the boat can be overcome. Through numerical analysis, CFD, lifting force and drag of wing in surface effect craft are predictable at the beginning so as to provide input data of lift force and drag in the design of wing in surface effect craft with a more professional.

Keyword: crew boat, speed cruise, wise, lift force, drag, CFD