Torsional vibrations analysis of a container-ship hull model, Made of composite materials

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ABSTRACT

In the paper, the torsional vibration of the ship is treated.Taking into account the thin-walled beam theory, the torsion behaviour analysis of simple open and closed section beam is presented. Finally, the torsion analysis of a ship hull container model, made of composite material, based on FEM analysis is presented.The work was made within the European Project FP6- MARSTRUCT, Network of Exce-lence on Marine Structures, which has been financed by the EU through the GROWTH Programme under contract TNE3-CT-2003-506141 (Task 4.3).

Keywords: *torsion of thin walled beams, finite element analysis, composite materials*

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