

Fatigue study of the ship structure joint

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ABSTRACT

A FEM analysis used for fatigue assessment, based on the rules, was done in the paper. The approach for fatigue assessment in the early design stage has been developed. To overcome the challenges due to limited information in the early design stage, generic structural elements and predefined fatigue-critical details were chosen. This allows the development of a common approach for different ship types, which is also applicable for optimization purpose.

Keywords: finite elements, marine structures, materials fatigue

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