

Numerical and experimental analysis of the adhesive joints

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ABSTRACT

The paper describes the results obtained after the numerical analyses and mechanical testing for the adhesive joints used in ship structures. The work undertaken in the numerical and experimental tests of different connections (steel - glass fiber polyester resin; steel - carbon fiber epoxy) is summarized. The numerical nonlinear calculus is done with COSMOS/M licensed soft, due to the nonlinear properties of the adhesive and also due to the nonlinear behavior of the adhesive joint.

Keywords: marine structures, finite elements, composite structures

1. References

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