

عنوان مقاله:

Advanced Engineering Simulations in the Offshore Industry

محل انتشار:

سیزدهمین همایش صنایع دریایی (سال: 1390)

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خلاصه مقاله:

An overview of simulations for assorted advanced engineering analyses in the offshore industry is given. The analyzed structures include fixed and floating offshore structures, related ships such as supply vessels, and selected equipment. The overview is intended to give an introduction showing the scope of simulation tools and how they are used in modern industry practice. The applications are taken predominantly from the experience of GL Group with a strong focus on actual industry projects and recent research projects. The individual techniques are briefly described in fundamental approach and applicability. Tools and suitable applications are matched, giving references to more detailed descriptions. The overview covers structural analyses (strength, vibrations and noise), flow analyses (seakeeping in particular, but also ship hull optimization, aerodynamic flows, smoke and gas dispersion, HVAC and fire simulations), and discrete event simulations as used for evacuations or offshore installation processes.

کلمات کلیدی:

engineering, offshore, seakeeping, simulation

لینک ثابت مقاله در پایگاه سیویلیکا:

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