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Ship survivability study using high fidelity CFD

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Safety is integral to the reputation of passenger ship companies making it of paramount concern to them. For this reason passenger ship owners are aiming for safety standards well beyond the statutory requirements. The current methods for assessing ship survivability following a flooding casualty adopts a simplified application to define a complex issue and lead uncertainty and over-design. This study used high fidelity deterministic Computational Fluid Dynamics (CFD) analysis in order to explore the shortfalls of the current design guidance such as SOLAS. A number of flooding scenarios are modelled on a cruise ship at full scale for calm and rough seas

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