Robustness of the Probabilistic damage Stability Concept to the Degree of Details in the Subdivision

The paper addresses the sensitivity of the Attained Index A to the degree of details in the modeling of the internal subdivision and for differences in software. The calculations are performed within the framework of the SOLAS, Part B.1 for cargo ships. The different software gives fairly equal results in all cases. As the calculations in general are done without knowing the results from the other partners, the deviations observed may also contain possible modeling errors. Comparison between Attained Index A for the simplified models and the actual built design also shows that large simplifications can be taken without changing the Attained Index A significantly.

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