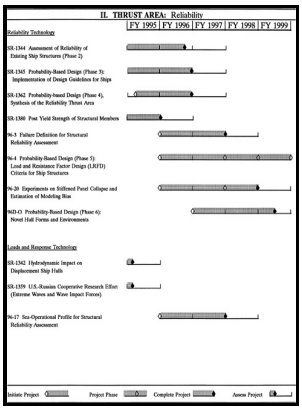
Studies on the buckling strength of ship structures

Society of Naval Architects of Japan - Knovel



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Lecture Notes

While beams with very thin flanges are rarely used, flanges of intermediate slenderness may buckle locally at loads close to the lateral buckling loads, in which case there may be unexpected strength reductions caused by imperfection sensitivity effects. Here, buckling strength of a rectangular plate with various boundary conditions is considered under uni-axial thrust. That is, the buckling strength of a rectangular plate under uni-axial thrust is the lowest when its four sides are simply supported.

ON THE EFFECT OF STIFFENERS UPON THE BUCKLING STRENGTH OF SHIP STRUCTURES

Although significant increases in strength are only realised for very slender beams, this post-buckling behaviour causes the beam strength to remain above the minor axis section capacity M sy, even when this is greater than the elastic buckling resistance, as shown in Figure 2.

ON THE EFFECT OF STIFFENERS UPON THE BUCKLING STRENGTH OF SHIP STRUCTURES

Thus the assessment of the safety and reliability of a double-hull structure requires the confirmation of the buckling strength of the skin plate and the behavior of the global structure after buckling.

Lecture Notes

The only difference is the presence of the influence of stiffener to increase buckling strength of the local plate in the case of stiffened plate.

Buckling and Ultimate Strength Assessment of Ship Hull Layered Composite Panels

Axial compressive loads are applied with eccentricity. The finite element method has been expanded to analyse the buckling strength of ship structures. From this point of view, the ultimate strength limits and load-carrying capacity of tubular bracing members in semisubmersible drilling

units should be assessed carefully.

Buckling and Ultimate Strength Assessment of Ship Hull Layered Composite Panels

Open - Buy once, receive and download all available eBook formats, including PDF, EPUB, and Mobi for Kindle. Ring stiffeners of welded box section are used to avoid tilting of flat stiffeners. Above this slenderness ratio, negative buckling strength is calculated.

Buckling Strength

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