

## Buckling Of Ship Structures

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Buckling may occur even though the stresses that develop in the structure are well below those needed to cause failure in the material of which the structure is composed. Further loading may cause significant and somewhat unpredictable deformations, possibly leading to complete loss of the member's load-carrying capacity.

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Fatigue cracks, buckling of panels, indents and corrosion are the most common failures in ship structures during operation. Out of these the fatigue failures play very critical part in the ship structures. Fatigue cracks occur due to cycling loading, specially, action of waves on ship structures.

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Buckling is a mathematical instability leading to the structural failure of a material. It occurs when a structure is subjected to compressive loads. In the shipbuilding industry most of the structures are made of steel and aluminum plates.

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The effective width concept is frequently used in the design of thin-walled metal structures and has been ap- plied to metal ship structural design for sometime in order to account for the post-buckling reduction of strength. After the occurrence of local plate buckling between stiffeners, a portion of the pre-buckling load on the centre J-1