

عنوان البحث: Collision Analysis of Ship Side

مكان النشر : Advanced Materials Research Journal

تاريخ الإرسال للنشر: 11/10/2010 تاريخ القبول للنشر: 12/11/2010 تاريخ النشر:

2/2011

النسبة المئوية لجهد الباحث في إعداد البحث (إذا كان البحث مشتركاً): التوقيع:

•ترفق نسخة البحث المنشور مأخوذة من المجلة العلمية أو مجلد المؤتمر مباشرة.

ملخص البحث :

Structural design of ships against collision requires prediction of the extent of damage to stiffened plates subjected to impact. In ship structures, stiffened plates are furnished with vertical or horizontal stiffeners to sustain conventional loads such as shearing, bending and local buckling. The consideration of collision in ship structural design is especially important for tankers where accidents may cause serious environmental pollution. In predicting the extent of collision damage, FE modeling of stiffened plates using ABAQUS software is applied to demonstrate different collision scenario. Typical stiffened plates of tankers in service with different configurations of stiffeners are used to examine absorbed energy in each case. The aim of this paper is to examine the stiffener shape that absorbs more deformation energy.