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BOW FLARE IMPACT LOADS ON CONTAINERSHIPS

Summary

Recently, the number of large container ships is increasing. In order to increase the convenience for cargo loading for containers and pure car carriers, the recent tendency has been to widen the bow flare angle. This raises the flare slamming pressure excessively and causes structural damages. The problem is recently exacerbated by modern trend to "drive through" bad weather. The bow flare slamming impact on such ships was investigated by applying contemporary rules. For practical purposes, the values of these pressures are usually obtained by simplified procedures suggested by classification societies. The paper addresses some basic aspects of the problem such as Bowflare slamming describes dynamic wave impact on the bow side shell structure above the design waterline. During water entry the bow structure is subject to high pressure loads which sometimes lead to local damages that usually do not affect the survivability of the ship.

the influence of the design parameters as well as the problem of the uncertainty of the results. The objective of the research is also to improve our understanding of the background of the various classification societies approaches related to bowflare slamming pressure estimation.

Key words: key words in English

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