

عنوان مقاله:

Technical and Operational Options for Safer Tankers

محل انتشار:

سیزدهمین همایش صنایع دریایی (سال: 1390)

تعداد صفحات اصل مقاله: 9

نویسنده:

Volker Bertram - *FutureShip, Hamburg/Germany; volker*

خلاصه مقاله:

Tanker accidents fuel the public discussion on maritime safety and corresponding legislation. Technical and operational measures are reviewed. First, the general environmental friendliness of very large tankers in regular operation is reviewed, pointing out that the very aspects making tankers highly efficient in transport (with associated benefits for emissions) are linked to problems in accidents. Technical options to improve tanker safety at moderate cost include expert system technology for collision avoidance, larger rudders and structural design for increased collision resistance. Progress in design methods, most notably formal optimization, allows better tanker designs with improved safety and energy efficiency. If available and proposed measures would be implemented, tanker safety would be significantly increased with a modest increase in gasoline and fuel oil prices. The problem is that many tanker accidents are due to violations of existing legislation. The problem of implementing safety is then addressed with proposals to increase liability and mandatory insurance independent of where the ship is registered.

کلمات کلیدی:

environment, oil, pollution, safety, tanker

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/138902>

