

Analisis pengaruh ketinggian gelombang terhadap stabilitas kapal akibat pemindahan rute = Analysis of waveheight influence on ship stability due to route relocated

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Abstrak

[Menyadari tren pembelian kapal feri bekas dari luar negeri untuk dioperasikan di Indonesia dengan mengabaikan aspek stabilitas kapal ketika memodifikasi dan pemindahan operasi kapal ke rute pelayaran baru yang hanya mementingkan masalah bisnis menjadi hal sangat penting dipertimbangkan sebagai salahsatu penyebab kecelakaan kapal tenggelam. Salah satu hal yang mempengaruhi stabilitas kapal adalah pengaruh ketinggian gelombang yang ada dilautan. Oleh karena itu penting dilakukannya analisa stabilitas kapal terhadap ketinggian gelombang mengacu pada persyaratan International Maritime Organization (IMO). Hasil analisis menunjukkan semakin tinggi ketinggian gelombang yang diberikan terhadap suatu kapal maka kapal pun akan merespon dengan semakin tingginya besaran maksimum lengan penegak dengan berupaya mempertahankan sudut maksimum lengan penegak berada untuk mendekati posisi stabil. Kriteria stabilitas berdasarkan perhitungan stabilitas yang mengacu pada IMO A.749 (18) menyatakan bahwa ada satu poin yang tidak memenuhi standar persyaratan yaitu sudut maksimum lengan penegak yang kurang dari 25. Selebihnya kapal ini memenuhi standarisasi stabilitas yang telah ditetapkan oleh IMO, baik itu kriteria tambahan untuk kapal penumpang. Faktor kenyamanan pun tak luput diperhatikan dimana rolling period kapal ini tidak memenuhi batas minimum kenyamanan kapal penumpang yaitu 8 second.

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