

TOPIC: (6) Ship hydrodynamics, seakeeping and maneuverability

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SCHOONER TYPE TRAINING SHIP INTACT STABILITY ASSESSMENT AND ANALYSIS

Summary

Sailing ship stability analysis represents specific challenge because building of that type of vessel are very rare today and stability assessment approaches are very different and insufficiently described. Regarding that MCA Large commercial yacht code and GL rules for yachts ≥ 24 m are consulted and used for intact stability assessment because CRS Rules for technical supervision of sea-going ships are not suitable for analysis of schooner type sail training vessels. Aim of this paper is to present analyse and compare available methods for sailing ship intact stability analysis, for different operating conditions: sea state, corresponding wind pressures and different sail area.

Key words: intact stability, sail area, sea state, wind pressure

ANALIZA STABILITETA ŠKOLSKOG BRODA TIPa LOGER U NEOŠTEĆENOM STANJU

Sažetak

Analiza stabiliteta brodova s pogonom na jedra predstavlja poseban izazov obzirom da postoji više različitih pristupa rješenju tog problema i relativno malo informacija jer se danas takvi brodovi rijetko grade.

Budući da pravila HRB-a za tehnički nadzor pomorskih brodova nisu primjenjiva na ovu vrstu plovnih objekata analiza školskog broda tipa loger s klasičnim ojedrenjem provedena je u skladu s pravilima MCA Large commercial yacht code-a i GL rules for yachts ≥ 24 m. Cilj rada je prikazati i usporediti metode za analizu stabiliteta školskog broda u neoštećenom stanju odnosno plovnih svojstava za odgovarajuće projektne uvjete stanja mora na Jadranu odnosno pritiske vjetra i odgovarajuće izložene površine jedrilja.

Ključne riječi: *stabilitet u neoštećenom stanju, jedrilje, stanje mora, pritisak vjetra*