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عنوان مقاله:

Systematic View How to Design a Ship Unloader for Bag Loads

محل انتشار: چهارمین کنفرانس بین المللی سواحل و بنادر و سازه های دریایی (سال: 1379)

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خلاصه مقاله:

In this paper a design procedure for a ship unloader is presented. The unloader function is to convey the loadings in the form of bags and cartoons from the ship stores to the seaports at different sea conditions in a continuous manner. The system accessibility to the cargo ship and to the port is primarily checked. Mechanisms are chosen to reach to different stores levels along the cargo ship under different working conditions. The design procedure, the standards, the methodologies and the optimization procedures in the design of these sections and their elements are described in brief. The major design standards employed are those set by FEM or DIN for the design of such handling machines [1-4]. In structural analysis, finite elements analysis of each element under large deformation and dynamic loading are carried out. The strength and stability analysis of the parts and the system as a whole under different loading 4th international conferenceon coasts, ports & marine structure,Nov 2000 Shahid Rajaee Port Complex, Bandar Abbass 622 conditions are checked to arrive at the final design. The driving power for the luffing and slewing and the conveying systems are calculated under different working conditions [7].Although the machine is designed to function at a special port (in south of Iran) with a specialized accessibility, geometric and loading capacity, however the philosophy behind the design is general enough to be implemented in similar situations and to be used in the design .

کلمات کلیدی:

ship unloader, gantry, boom, tower, counterweight, slewing, luffing

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