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Ship Structural Design Concepts Second C Geheimore

Owen F. Hughes, Jeom Kee Paik



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Ship Structural Design Concepts United States. Ship Structure Committee, 1975 The report examines and documents the state of the art of ship design It is a compilation of articles prepared by various authors familiar with naval or merchant ship construction Ship Structural Design Concepts J. Harvey Evans, 1975 **Ship Structural Analysis and Design** Owen F. Hughes, Jeom Kee Paik, 2010 For a structure as large and as complex as a ship there are three levels of structural design the second and most central of which is the subject of this book Rationally based design is design from first principles using the tools of modern engineering science computer and the methods of structural analysis and optimization which computers have made possible Thus the rationally based approach is ideally suited for preliminary structural design and it is this approach and this level of design that is the subject of this book **Ship Structural Design Concepts. Final Report. Revised and Corrected Edition** J. Harvey Evans, 1975 Ship Structural Design Concepts J. Harvey Evans, 1983 **A Guide for the Analysis of Ship Structures** National Research Council (U.S.). Committee on Ship Structural Design, United States. Ship Structure Committee, 1960 Ship Structural Design Owen F. Hughes, 1983 *Some Reflections of a Structural Engineer Regarding Research Problems in Ship Structural Design* Charles Ernest Massonnet, 1962 The views presented are derived from experiences in the field of structural engineering however they are applicable to ship hulls The following points are analysed in turn materials loads on ships and ship structural design and analysis *Ship Structural Design* Owen F. Hughes, John Bernard Caldwell, 1988 *Local Strength of Ship Structures* P. A. Caridis, 2024 Ship structures can be extremely large and their structural arrangements are often complex and of a considerable variety Local Strength of Ship Structures examines the basic aspects of ship structural analysis and design using mathematical tools with an emphasis on an understanding of the physics of the behavior of these structures A fundamental understanding of these concepts is essential to use computer based tools effectively In addition to mathematical models reference is made to test data that have been obtained over many years and used to gain insight into ship structural behavior The book provides an introduction to local ship strength problems structural arrangements and the different types of materials used in ship construction and further examines the fundamentals of engineering mechanics with a particular focus on marine structure problems It also covers the basics of ship structural analysis and design with the help of mathematical tools Marine Structural Design Yong Bai, Wei-Liang Jin, 2015-10-21 Marine Structural Design Second Edition is a wide ranging practical guide to marine structural analysis and design describing in detail the application of modern structural engineering principles to marine and offshore structures Organized in five parts the book covers basic structural design principles strength fatigue and fracture and reliability and risk assessment providing all the knowledge needed for limit state design and re assessment of existing structures Updates to this edition include new chapters on structural health monitoring and risk based decision making arctic marine structural development and the addition of new LNG ship topics including composite materials and structures

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