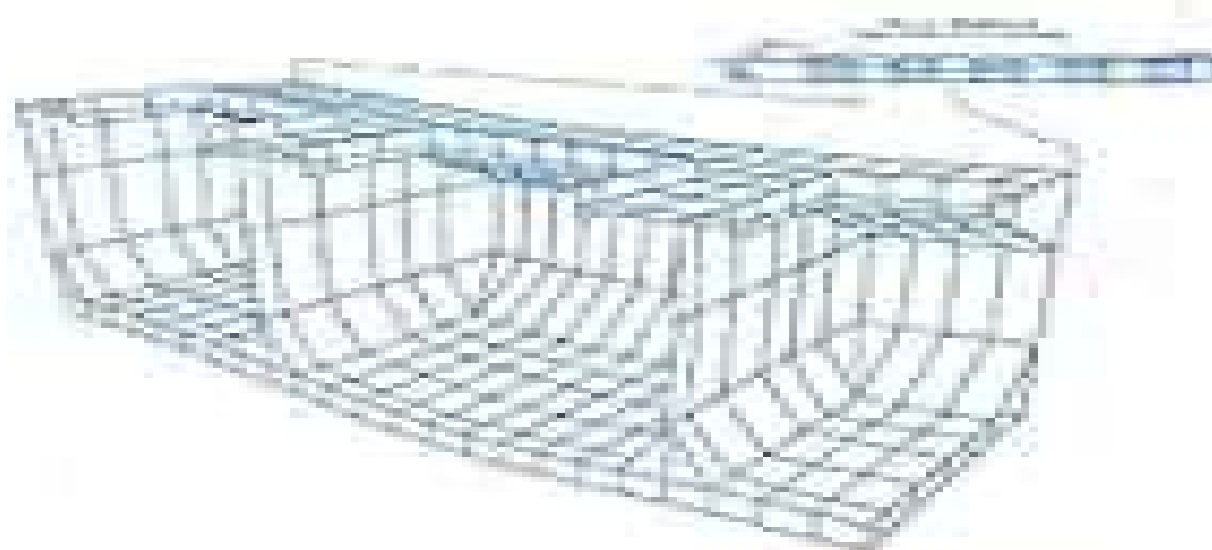


# Ship Structural Design:

A Rationally Based, Computer-Aided,  
Optimization Approach



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# Ship Structural Design A Rationallybased Computeraided Optimization Approach

**Carlos Guedes Soares,P.K. Das**



## **Ship Structural Design A Rationallybased Computeraided Optimization Approach:**

**Ship Structural Design** Owen F. Hughes, John Bernard Caldwell, 1988      **Ship Structural Design** Owen F. Hughes, 1983      **A Holistic Approach to Ship Design** Apostolos Papanikolaou, 2018-12-11 This book introduces a holistic approach to ship design and its optimisation for life cycle operation. It deals with the scientific background of the adopted approach and the associated synthesis model which follows modern computer aided engineering CAE procedures. It integrates techno economic databases calculation and multi objective optimisation modules and software tools with a well established Computer Aided Design CAD platform along with a Virtual Vessel Framework VVF which will allow virtual testing before the building phase of a new vessel. The resulting graphic user interface GUI and information exchange systems enable the exploration of the huge design space to a much larger extent and in less time than is currently possible thus leading to new insights and promising new design alternatives. The book not only covers the various stages of the design of the main ship system but also addresses relevant major onboard systems components in terms of life cycle performance to offer readers a better understanding of suitable outfitting details which is a key aspect when it comes the outfitting intensive products of international shipyards. The book disseminates results of the EU funded Horizon 2020 project HOLISHIP.

**Ultimate Limit State Design of Steel-Plated Structures** Jeom Kee Paik, Anil Kumar Thayamballi, 2003-03-28 Steel plated structures are important in a variety of marine and land based applications including ships offshore platforms power and chemical plants box girder bridges and box girder cranes. The basic strength members in steel plated structures include support members such as stiffeners and plate girders plates stiffened panels grillages and box girders. During their lifetime the structures constructed using these members are subjected to various types of loading which is for the most part operational but may in some cases be extreme or even accidental. **Ultimate Limit State Design of Steel Plated Structures** reviews and describes both fundamentals and practical design procedures in this field. The derivation of the basic mathematical expressions is presented together with a thorough discussion of the assumptions and the validity of the underlying expressions and solution methods. Particularly valuable coverage in the book includes Serviceability and the ultimate limit state design of steel structural systems and their components. The progressive collapse and the design of damage tolerant structures in the context of marine accidents. Age related structural degradation such as corrosion and fatigue cracks. Furthermore this book is also an easily accessed design tool which facilitates learning by applying the concepts of the limit states for practice using a set of computer programs which can be downloaded. In addition expert guidance on mechanical model test results as well as nonlinear finite element solutions sophisticated design methodologies useful for practitioners in industries or research institutions. Selected methods for accurate and efficient analyses of nonlinear behavior of steel plated structures both up to and after the ultimate strength is reached is provided. Designed as both a textbook and a handy reference the book is well suited to teachers and university students who are approaching the limit

state design technology of steel plated structures for the first time The book also meets the needs of structural designers or researchers who are involved in civil marine and mechanical engineering as well as offshore engineering and naval architecture

*Buckling of Ship Structures* Mohamed Shama, 2012-08-04 Buckling of Ship Structures presents a comprehensive analysis of the buckling problem of ship structural members A full analysis of the various types of loadings and stresses imposed on ship plating and primary and secondary structural members is given The main causes and consequences of the buckling mode of failure of ship structure and the methods commonly used to control buckling failure are clarified This book contains the main equations required to determine the critical buckling stresses for both ship plating and the primary and secondary stiffening structural members The critical buckling stresses are given for ship plating subjected to the induced various types of loadings and having the most common boundary conditions encountered in ship structures The text bridges the gap existing in most books covering the subject of buckling of ship structures in the classical analytical format by putting the emphasis on the practical methods required to ensure safety against buckling of ship structural members It is very useful to ship designers shipyard engineers naval architects international classification societies and also to students studying naval architecture marine engineering and offshore structures It is a valuable source for practicing naval architects to quickly check the possibility of buckling of ship structure members without reverting to the complex and costly analysis using advanced FEM software

**Advanced Ship Design for Pollution Prevention** Carlos Guedes Soares, Joško Parunov, 2010-03-22 Advanced Ship Design for Pollution Prevention is a collection of papers reflecting the teaching materials for a Master of Naval Architecture course developed in the European ASDEPP Advanced Ship Design for Pollution Prevention project The project was financed by the European Commission within the TEMPUS program The topics covered in the book include

**Marine Structural Design** Yong Bai, Wei-Liang Jin, 2015-09-18 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 uncertainty analysis and green ship concepts Provides the structural design principles background theory and know how needed for marine and offshore structural design by analysis Covers strength fatigue and fracture reliability and risk assessment together in one resource emphasizing practical considerations and applications Updates to this edition include new chapters on structural health monitoring and risk based decision making and new content on arctic marine structural design

Computational Ship Design Myung-Il Roh, Kyu-Yeul Lee, 2017-09-29 This book offers an introduction to the fundamental principles and systematic methodologies employed in

computational approaches to ship design It takes a detailed approach to the description of the problem definition related theories mathematical formulation algorithm selection and other core design information Over eight chapters and appendices the book covers the complete process of ship design from a detailed description of design theories through to cutting edge applications Following an introduction to relevant terminology the first chapters consider ship design equations and models freeboard calculations resistance prediction and power estimation Subsequent chapters cover topics including propeller design engine selection hull form design structural design and outfitting The book concludes with two chapters considering operating design and economic factors including construction costs and fuel consumption The book reflects first hand experiences in ship design and R D activities and incorporates improvements based on feedback received from many industry experts Examples provided are based on genuine case studies in the field The comprehensive description of each design stage presented in this book offers guidelines for academics researchers students and industrial manufactures from diverse fields including ocean engineering and mechanical engineering From a commercial point of view the book will be of great value to those involved in designing a new vessel or improving an existing ship Marine Design XIII, Volume 1 Pentti Kujala,Liangliang Lu,2018-06-04 This is volume 1 of a 2 volume set Marine Design XIII collects the contributions to the 13th International Marine Design Conference IMDC 2018 Espoo Finland 10 14 June 2018 The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline The focus is on key design challenges and opportunities in the area of current maritime technologies and markets with special emphasis on Challenges in merging ship design and marine applications of experience based industrial design Digitalisation as technological enabler for stronger link between efficient design operations and maintenance in future Emerging technologies and their impact on future designs Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference focus Marine Design XIII covers the following research topic series State of art ship design principles education design methodology structural design hydrodynamic design Cutting edge ship designs and operations ship concept design risk and safety arctic design autonomous ships Energy efficiency and propulsions energy efficiency hull form design propulsion equipment design Wider marine designs and practices navy ships offshore and wind farms and production Marine Design XIII contains 2 state of the art reports on design methodologies and cruise ships design and 4 keynote papers on new directions for vessel design practices and tools digital maritime traffic naval ship designs and new tanker design for arctic Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design **SSC.** United States. Ship Structure Committee,1983 Progress in the Analysis and Design of Marine Structures Carlos Guedes Soares,Y. Garbatov,2017-04-28 Progress in the Analysis and Design of Marine Structures collects the contributions presented at MARSTRUCT 2017 the 6th International Conference on Marine Structures Lisbon Portugal 8 10 May 2017 The MARSTRUCT series of Conferences started in Glasgow UK in 2007 the second event of the series having taken place in

Lisbon Portugal in March 2009 the third in Hamburg Germany in March 2011 the fourth in Espoo Finland in March 2013 and the fifth in Southampton UK in March 2015 This Conference series deals with Ship and Offshore Structures addressing topics in the areas of Methods and Tools for Loads and Load Effects Methods and Tools for Strength Assessment Experimental Analysis of Structures Materials and Fabrication of Structures Methods and Tools for Structural Design and Optimisation and Structural Reliability Safety and Environmental Protection Progress in the Analysis and Design of Marine Structures is essential reading for academics engineers and all professionals involved in the design of marine and offshore structures

**Analysis and Design of Marine Structures V** C. Guedes Soares,R.A. Shenoi,2015-03-11 Analysis and Design of Marine Structures V contains the papers presented at MARSTRUCT 2015 the 5th International Conference on Marine Structures Southampton UK 25 27 March 2015 The MARSTRUCT series of conferences started in Glasgow UK in 2007 the second event of the series took place in Lisbon Portugal 2009 while the third was in Hambur Analysis and Design of Marine Structures

Carlos Guedes Soares,P.K. Das,2009-03-06 Analysis and Design of Marine Structures explores recent developments in methods and modelling procedures for structural assessment of marine structures Methods and tools for establishing loads and load effects Methods and tools for strength assessment Materials and fabrication of structures Methods and tools for structural design and opt **Ships and Offshore Structures XIX** Carlos Guedes Soares,Y. Garbatov,2015-09-03 This three

volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais Portugal on 7th to 10th September 2015 The International Ship and Offshore Structures Congress ISSC is a forum for the exchange of information by experts undertaking and applying marine structural research The aim of Animal Welfare in Animal Agriculture Wilson G. Pond,Fuller W. Bazer,Bernard E. Rollin,2011-11-23 What constitutes animal welfare With animals being used for companionship service research food fiber and by products animal welfare is a topic of great interest and importance to society As the world s population continues to increase a major challenge for society is the maintenance of a strong and viable food system which is linked to the well being and comfort of food animals Animal Welfare in Animal Agriculture Husbandry Stewardship and Sustainability in Animal Production explores the pressing issue of farm animal welfare in animal production systems in the United States and globally A framework for open discussion on animal welfare this multidisciplinary book brings together the perspectives of 40 highly qualified and recognized experts in their respective fields Fourteen chapters address a range of topics that includes ethics sociology food safety ecology feed resources biotechnology government regulations and sustainability as well as animal comfort health and contributions to society The book also offers a historical perspective on the growth of animal agriculture from family farms to industrial animal agriculture and the impact this has had on society Illustrating the diversity of viewpoints the concept of animal welfare is defined from the perspectives of an ethicist and philosopher a research scientist a veterinarian an industrialist and an activist as well as from the perspective of sustainability and product quality Written primarily for students but also highly relevant

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**Sustainable Maritime Transportation and Exploitation of Sea Resources** Enrico Rizzuto, Carlos Guedes Soares, 2011-09-20 Sustainable Maritime Transportation and Exploitation of Sea Resources covers the most updated aspects of maritime transports and of coastal and sea resources exploitation with a focus on but not limited to the Mediterranean area Vessels for transportation are analysed from the viewpoint of ship design in terms of hydrodynamic structural and pl

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Progress In Astronautics and Aeronautics Manohar P. Kamat, 1993

Advances in Marine Structures Carlos Guedes Soares, Wolfgang Fricke, 2011-03-14 In recent years significant advances have been made in the development of methods and modeling procedures for structural assessment of marine structures Various assessment methods are incorporated in the methods used to analyze and design efficient ship structures as well as in the methods of structural reliability to be used to ensure the safety

*Local Strength of Ship Structures* Piero Caridis, 2024-03-21 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 behaviour 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 behaviour Features Provides an introduction to local ship strength problems structural arrangements and the different types of materials used in ship construction Examines the fundamentals of engineering mechanics with a particular focus on marine structure problems Covers the basics of ship structural analysis and design using mathematical tools



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