

Chapter II

Wind and Current Load Prediction Procedures



2.1 BASIS OF PROCEDURES

Environmental loads induced on VLCCs (vessels in the 150,000 to 500,000 DWT range) by wind and current can be computed with the procedures described in this section. The forces and moments generated are suitable for a computer analysis of the required mooring restraint. The following non-dimensional coefficients are used throughout in the calculation of design loads:

C_x = longitudinal force coefficient

C_y = lateral force coefficient

C_{xy} = yaw moment coefficient

The subscripts *w* and *c* are used to distinguish between wind and current.

The sign convention and coordinate system adopted for this report are illustrated in Figure 1. The adopted sign convention is according to the ITTC's standards. This differs from the sign convention as published in the earlier 1977 OCIMF publication. The sign convention for the axis of coordinates in this publication refers to a stern-on direction of wind or current direction as 0 degrees. Curves of the force and moment coefficients as a function of wind and current angle of attack are provided in Figures 2 to 4 and Figures 5 to 14, respectively. The wind coefficients are based upon data obtained from wind tunnel tests conducted at the University of Michigan in the 1960's. The values of the current coefficients are based upon data from model tests performed at the Maritime Research Institute Netherlands (1975-1991) and for the deep water case ($W/D > 6$) the Design Manual of the United States Navy (ref. 2). The forces and moments computed will be in units of Newtons and Newton metres respectively with their point of action at the intersection of the transverse and longitudinal centre line of the tanker.

2.2 EQUATIONS FOR COMPUTING WIND LOADS

The resultant wind force and moments acting on a moored tanker are calculated using the following equations

$$F_{xw} = \frac{1}{2} C_{xw} \rho_w V_w^2 A_{xw}$$

$$F_{yw} = \frac{1}{2} C_{yw} \rho_w V_w^2 A_{Lw}$$

(1)

$$M_{xw} = \frac{1}{2} C_{xw} \rho_w V_w^2 A_{Lw} L_{wp}$$

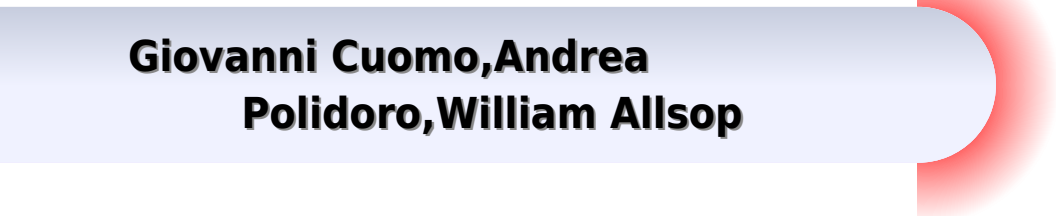
Note: The equations remain basically the same as provided in the 1977 edition.

¹ ITTC: International Towing Tank Conference publication 1987.



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**Giovanni Cuomo,Andrea
Polidoro,William Allsop**



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Prediction of Wind and Current Loads on VLCCs OCIMF Staff, 1977-01-01 *Methods for analysing wind, wave and swell data to estimate on an annual basis the number of days, and the maximum duration of periods during which port and ship operations will be impeded by these elements*, **Handbook of Offshore Engineering (2-volume Set)** Subrata Chakrabarti, 2005-08-19 Each chapter is written by one or more invited world renowned experts Information provided in handy reference tables and design charts Numerous examples demonstrate how the theory outlined in the book is applied in the design of structures Tremendous strides have been made in the last decades in the advancement of offshore exploration and production of minerals This book fills the need for a practical reference work for the state of the art in offshore engineering All the basic background material and its application in offshore engineering is covered Particular emphasis is placed in the application of the theory to practical problems It includes the practical aspects of the offshore structures with handy design guides simple description of the various components of the offshore engineering and their functions The primary purpose of the book is to provide the important practical aspects of offshore engineering without going into the nitty gritty of the actual detailed design Provides all the important practical aspects of ocean engineering without going into the nitty gritty of actual design details Simple to use with handy design guides references tables and charts Numerous examples demonstrate how theory is applied in the design of structures *Reassessment of the Marine Salvage Posture of the United States* National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Marine Salvage Issues, 1994-02-01 Prompt and effective response to time critical ship casualties and emergencies for example by refloating stranded ships can prevent marine pollution and economic disruption of ports and waterways The marine salvage industry which conducts this work has undergone significant changes in the past two decades This book evaluates these changes and assesses the adequacy of marine salvage in the United States Among the issues addressed are conditions in the salvage industry emergency response time national salvage policy workforce needs salvage techniques and the contribution of the Navy to the national salvage capability Piers, Jetties and Related Structures Exposed to Waves Giovanni Cuomo, Andrea Polidoro, William Allsop, 2024-08-15 Piers Jetties and Related Structures Exposed to Waves Second Edition delivers guidelines for engineers to analyse and optimise pier and jetty designs It is essential reading for maritime designers and consultants tasked with analysing designing and constructing piers and jetties

Mooring System Engineering for Offshore Structures Kai-Tung Ma, Yong Luo, Chi-Tat Thomas Kwan, Yongyan Wu, 2019-06-04 The mooring system is a vital component of various floating facilities in the oil gas and renewables industries However there is a lack of comprehensive technical books dedicated to the subject Mooring System Engineering for Offshore Structures is the first book delivering in depth knowledge on all aspects of mooring systems from design and analysis to installation operation maintenance and integrity management The book gives beginners a solid look at the fundamentals

involved during mooring designs with coverage on current standards and codes mooring analysis and theories behind the analysis techniques Advanced engineers can stay up to date through operation integrity management and practical examples provided This book is recommended for students majoring in naval architecture marine or ocean engineering and allied disciplines in civil or mechanical engineering Engineers and researchers in the offshore industry will benefit from the knowledge presented to understand the various types of mooring systems their design analysis and operations Understand the various types of mooring systems and the theories behind mooring analysis Gain practical experience and lessons learned from worldwide case studies Combine engineering fundamentals with practical applications to solve today's offshore challenges

Advances in Berthing and Mooring of Ships and Offshore Structures E. Bratteland, 2012-12-06 Two previous NATO Advanced Study Institutes ASI on berthing and mooring of ships have been held the first in Lisboa Portugal in 1965 and the second at Wallingford England in 1973 These ASIs have contributed significantly to the understanding and development of fenders and mooring as have works by Oil Companies International Marine Forum 1978 and PIANC 1984 Developments in ship sizes and building of new specialized terminals at very exposed locations have necessitated further advances in the combined mooring and fendering technology Exploration and exploitation of the continental shelves have also brought about new and challenging problems developments and solutions Offshore activities and developments have influenced and improved knowledge about both ships and other floating structures which are berthed and or moored under various environmental conditions The scope of this ASI was to present recent advances in berthing and mooring of ships and mooring of floating offshore structures focusing on models and tools available with a view towards safety and reduction of frequencies and consequences of accidents

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

Advances in Visualization and Optimization Techniques for Multidisciplinary Research Dean Vucinic, Fabiana Rodrigues Leta, Sheeja Janardhanan, 2019-09-27 This volume presents several multidisciplinary approaches to the visual representation of data

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Table of Contents Prediction Of Wind And Current Loads Ocimf

1. Understanding the eBook Prediction Of Wind And Current Loads Ocimf
 - The Rise of Digital Reading Prediction Of Wind And Current Loads Ocimf
 - Advantages of eBooks Over Traditional Books
2. Identifying Prediction Of Wind And Current Loads Ocimf
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Prediction Of Wind And Current Loads Ocimf
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prediction Of Wind And Current Loads Ocimf
 - Personalized Recommendations
 - Prediction Of Wind And Current Loads Ocimf User Reviews and Ratings

- Prediction Of Wind And Current Loads Ocimf and Bestseller Lists
- 5. Accessing Prediction Of Wind And Current Loads Ocimf Free and Paid eBooks
 - Prediction Of Wind And Current Loads Ocimf Public Domain eBooks
 - Prediction Of Wind And Current Loads Ocimf eBook Subscription Services
 - Prediction Of Wind And Current Loads Ocimf Budget-Friendly Options
- 6. Navigating Prediction Of Wind And Current Loads Ocimf eBook Formats
 - ePub, PDF, MOBI, and More
 - Prediction Of Wind And Current Loads Ocimf Compatibility with Devices
 - Prediction Of Wind And Current Loads Ocimf Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prediction Of Wind And Current Loads Ocimf
 - Highlighting and Note-Taking Prediction Of Wind And Current Loads Ocimf
 - Interactive Elements Prediction Of Wind And Current Loads Ocimf
- 8. Staying Engaged with Prediction Of Wind And Current Loads Ocimf
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prediction Of Wind And Current Loads Ocimf
- 9. Balancing eBooks and Physical Books Prediction Of Wind And Current Loads Ocimf
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prediction Of Wind And Current Loads Ocimf
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Prediction Of Wind And Current Loads Ocimf
 - Setting Reading Goals Prediction Of Wind And Current Loads Ocimf
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Prediction Of Wind And Current Loads Ocimf
 - Fact-Checking eBook Content of Prediction Of Wind And Current Loads Ocimf
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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