

Advanced Series on Ocean Engineering — Volume 22

THE DYNAMICS OF MARINE CRAFT

Maneuvering and Seakeeping



Edward M. Lewandowski

World Scientific

The Dynamics Of Marine Craft Maneuvering And Seakeeping

Robert G Dean, Robert A Dalrymple



The Dynamics Of Marine Craft Maneuvering And Seakeeping:

Dynamics Of Marine Craft, The: Maneuvering And Seakeeping Edward M Lewandowski, 2004-07-14 This book presents a theoretical treatment as well as a summary of practical methods of computation of the forces and moments that act on marine craft Its aim is to provide the tools necessary for the prediction or simulation of craft motions in calm water and in waves In addition to developing the required equations the author gives relations that permit at least approximate evaluation of the coefficients so that useful results can be obtained The approach begins with the equations of motion for rigid bodies relative to fixed and moving coordinate systems then the hydrodynamic forces are examined starting with hydrostatics and progressing to the forces on a moving vehicle in calm water and after a review of water wave theory in waves Several detailed examples are presented including calculations of hydrostatics horizontal and vertical plane directional stability and wave induced motions Also included are unique discussions on various effects such as fin hull interactions numerical stability of integrators heavy torpedoes and the dynamics of high speed craft The book is intended to be an introductory level graduate text and a reference for the practicing professional

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Handbook of Marine Craft Hydrodynamics and Motion Control Thor I. Fossen, 2011-05-23 The technology of hydrodynamic modeling and marine craft motion control systems has progressed greatly in recent years This timely survey includes the latest tools for analysis and design of advanced guidance navigation and control systems and presents new material on underwater vehicles and surface vessels Each section presents numerous case studies and applications providing a practical understanding of how model based motion control systems are designed Key features include a three part structure covering Modeling of Marine Craft Guidance Navigation and Control Systems and Appendices providing all the supporting theory in a single resource kinematics kinetics hydrostatics seakeeping and maneuvering theory and simulation models for marine craft and environmental forces guidance systems sensor fusion and integrated navigation systems inertial measurement units Kalman

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Coastal Dynamics Willem T. Bakker, 2013 Our world is constantly changing governed by continuity dynamic interactions and boundary conditions For many coasts the common denominators contributing to these changes are sand waves tides salt gradients and human interaction all themes that are treated in this valuable textbook Confining itself to essentials the coverage reflects centuries of theoretical and practical knowledge of Dutch coastal engineers Focussing where applicable on linear theory the book shows how the essentials of local coastal behavior can be reproduced and predicted

Hydrodynamics Around Cylindrical Structures B. Mutlu Sumer, Jürgen Fredsøe, 2006 This book discusses the subject of wave current flow around a cylinder the forces induced on the cylinder by the flow and the vibration pattern of slender structures in a marine environment The primary aim of the book is to describe the flow pattern and the resulting load which develops when waves or current meet a cylinder Special attention is paid to circular cylinder The development in the forces is related to the various flow patterns and is discussed in detail Regular as well as irregular waves are considered and special cases like wall proximities pipelines are also investigated

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Water Wave Mechanics For Engineers And Scientists Robert G Dean, Robert A Dalrymple, 1991-01-23 This book is intended as an introduction to classical water wave theory for the college senior or first year graduate student The material is self contained almost all mathematical and engineering concepts are presented or derived in the text thus making the book accessible to practicing engineers as well The book commences with a review of

fluid mechanics and basic vector concepts The formulation and solution of the governing boundary value problem for small amplitude waves are developed and the kinematic and pressure fields for short and long waves are explored The transformation of waves due to variations in depth and their interactions with structures are derived Wavemaker theories and the statistics of ocean waves are reviewed The application of the water particle motions and pressure fields are applied to the calculation of wave forces on small and large objects Extension of the linear theory results to several nonlinear wave properties is presented Each chapter concludes with a set of homework problems exercising and sometimes extending the material presented in the chapter An appendix provides a description of nine experiments which can be performed with little additional equipment in most wave tank facilities

Introduction to Nearshore Hydrodynamics Ib A. Svendsen, 2006 This book is intended as an introductory textbook for graduate students and as a reference book for engineers and scientists working in the field of coastal engineering As such it gives a description of the theories for wave and nearshore hydrodynamics It is meant to demystify the topics and hence starts at a fairly basic level It requires knowledge of fluid mechanics equivalent to a first year graduate level At the end of each topic an attempt is made to give an overview of the present stage of the scientific development in that area with numerous references for further studies

Dynamics Of Coastal Systems Job Dronkers, 2005-08-04 Dynamics of Coastal Systems is about the dynamic interaction between water motion and seabed topography which affects the natural response of coastal systems to change in external conditions and to human interventions from the scale of seabed ripples up to the scale of entire barrier and delta systems The book highlights major concepts developed during the past 50 years for the description of current topography tide topography and wave topography interactions It provides simple analytical tools and models for diagnosing and predicting coastal response to change with references to a great variety of coastal systems around the world These concepts and tools are crucial for sustainable management of beaches deltas and coastal wetlands The book is based on a master course on coastal morphodynamics given at the Universities of Utrecht and Delft in The Netherlands for graduate students who are familiar with the basic concepts of coastal hydrodynamics It enables coastal engineers to complete their background knowledge and to facilitate access to cutting edge scientific literature on specific topics The book may also serve to familiarise consultants practitioners and academics in related coastal disciplines with modern concepts of land sea interaction

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Theory And Applications Of Ocean Surface Waves (In 2 Parts) Chiang C

Mei, Michael Aharon Stiassnie, Dick K-p Yue, 2005-07-26 This book is an expanded version of The Applied Dynamics of Ocean Surface Waves It presents theoretical topics on ocean wave dynamics including basic principles and applications in coastal and offshore engineering as well as coastal oceanography Advanced analytical and numerical techniques are applied such as singular perturbations In this expanded version three chapters on recent developments have been added The first is on multiple scattering by periodic or random bathymetry The second is on Zakharov s theory of nonlinear wave fields with broad spectra The third is an extensive discussion of powerful numerical techniques for highly nonlinear waves Other new topics include infragravity waves upstream solitons Venice storm gates etc In addition there are many new exercises Theory and Applications of Ocean Surface Waves will be invaluable for graduate students and researchers in coastal and ocean engineering geophysical fluid dynamicists interested in water waves and theoretical scientists and applied mathematicians wishing to develop new techniques for challenging problems or to apply techniques existing elsewhere

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In a digitally-driven earth where displays reign supreme and instant transmission drowns out the subtleties of language, the profound techniques and mental subtleties hidden within words frequently move unheard. Yet, located within the pages of **The Dynamics Of Marine Craft Maneuvering And Seakeeping** a interesting literary prize sporting with natural feelings, lies an extraordinary quest waiting to be undertaken. Published by a talented wordsmith, this enchanting opus invites viewers on an introspective journey, delicately unraveling the veiled truths and profound influence resonating within the very cloth of each and every word. Within the mental depths of this emotional evaluation, we shall embark upon a honest exploration of the book is primary themes, dissect its fascinating publishing design, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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