

Mechanics of fluids and transport phenomena



0950-0707(200605)24:3:1-L

Hermann and G.C. Papanicolaou

Water waves and ship hydrodynamics

Maritimes, Nijhoff Publishers
Delft University Press

Water Waves And Ship Hydrodynamics An Introduction

R. Timman,A.J. Hermans,G.C. Hsiao



Water Waves And Ship Hydrodynamics An Introduction:

Water Waves and Ship Hydrodynamics A.J. Hermans, 2010-10-21 In this book an introduction is given to aspects of water waves that play a role in ship hydrodynamics and offshore engineering At first the equations and linearized boundary conditions are derived describing the non viscous free surface water waves with special attention to the combination of steady and non steady flow fields Then some simple kinds of free wave solutions are derived such as plane waves and cylindrical waves For several situations steady and unsteady the source singularity function is derived These functions play a role in numerical codes used to describe the motion of ships and offshore structures These codes are mostly based on a boundary integral formulation therefore we give an introduction to these methods It is shown how first order ship motions can be determined In offshore engineering the second order wave drift motions play an important role An introduction to this phenomenon is given and the effects which have to be taken into account are explained by means of a simple example where we can determine nearly all the aspects analytically An interesting example that is worked out is the motion of very large floating flexible platforms with finite draft Finally an introduction to the theory of shallow water non linear dispersive waves is presented and shallow water ship hydrodynamics that plays a role in coastal areas and channels is treated Here attention is paid to the interaction between passing ships in restricted water In the appendix a short introduction to some of the mathematical tools is given

Water Waves and Ship Hydrodynamics R. Timman, 1984 [Water Waves and Ship Hydrodynamics](#) R. Timman, A.J. Hermans, G.C. Hsiao, 1985-10-31 In the spring of 1971 Reinier Tirnrnan visited the University of Delaware during which time he gave a series of lectures on water waves from which these notes grew Those of us privileged to be present during that time will never forget the experience Rein Tirnrnan is not easily forgotten His seemingly inexhaustible energy completely overwhelmed us Who could forget the numbing effect of a succession of long wine filled evenings of lively conversation on literature politics education you name it followed early the next day by the appearance of the apparently totally refreshed red haired giant eager to discuss our mathematical problems with keen insight and remarkable understanding ready to lecture on fluid mechanics or optimal control theory or a host of other subjects and ready to work into the evening until the cycle repeated He thought faster he knew more he drank more and he slept less than any of us mortals and he literally wore us out What a rare privilege indeed to have participated in this intellectual orgy Tirnrnan's lively interest in almost every thing coupled with his buoyant enthusiasm and infectious optimism epitomized his approach to life No delicate nibbling at the fringes he wanted every morsel of every course In these times of narrow specialization truly renaissance figures are if not extinct at least a highly endangered species But Tirnrnan was one of that rare breed

Ship Hydrodynamics, Water Waves, and Asymptotics Fritz Ursell, 1994 **Mathematical Techniques for Wave Interaction with Flexible Structures** Trilochan Sahoo, 2012-10-24

Mathematical Techniques for Wave Interaction with Flexible Structures is a thoughtful compilation of the various mathematical techniques used to deal with wave structure interaction

problems The book emphasizes unique determination of the solution for a class of physical problems associated with Laplace or Helmholtz type equations satisfying high *Hydrodynamic Propulsion and Its Optimization* J.A. Sparenberg, 2013-04-17

HYDRODYNAMIC PROPULSION AND ITS OPTIMIZATION ANALYTIC THEORY Hydrodynamic propulsion has been of major interest ever since craft took to the water In the course of time many attempts have been made to invent develop or to improve hydrodynamic propulsion devices Remarkable achievements in this field were made essentially by experienced individuals who were in need of reliable propulsion units such as paddle wheels sculling devices screw propellers and of course sails The problem of minimizing the amount of input energy for a prescribed effective output was first investigated seriously at the beginning of this century In 1919 BETZ presented a paper on air screw propellers with minimum consumption of energy which could be applied to ship screw propellers also Next attempts were made to optimize hydrodynamic propulsion units Ensuing investigations concerned the optimization of the hydrodynamic system ship propeller The first simple theory of ship propulsion which was presented considered more or less only thrust augmentation wake processing and modification of propeller characteristics when operating behind the ships hull This theory has been little improved meanwhile and is still useful particularly with regard to practical ship design and for evaluating results of ship model tests However this theory is not adequate for optimization procedures necessary for high technology propulsion particularly for ship propellers utilizing propulsion improving devices such as tip end plates or tip fins at the propeller blades spoilers in front of the propeller asymmetrical stern etc **Magnetohydrodynamics** R.J. Moreau, 1990-11-30

Hydrocyclones L. Svarovsky, M.T. Thew, 2013-03-09 It is with great pleasure and satisfaction that we introduce this volume which comprises the papers accepted for the 4th International Conference on Hydrocyclones held in Southampton from 23rd to 25th September 1992 As the name implies this is the fourth Conference in the series with the previous ones held in Cambridge in 1980 Bath in 1984 and Oxford in 1987 The papers cover a wide span of activities from fundamental research to advances in industrial practice and as in the earlier volumes make a significant contribution of lasting value to the technical literature on hydrocyclones Hydrocyclones continue to widen their appeal to engineers besides their traditional role in mineral processing they now attract a lot of attention in chemical engineering the oil and gas industry power generation the food industry textiles metal working waste water treatment pharmaceuticals biotechnology and other industries The reason for this continuously increasing attention is as David Parkinson General Manager of Conoco UK said recently that a hydrocyclone is an engineering dream a machine with no moving parts Yet as this Volume clearly shows the hydrocyclone can do so many things and do them well whether the application is in solid liquid liquid liquid or liquid gas separation Mechanics of Fretting Fatigue D.A. Hills, D. Nowell, 2013-03-09 Failures of many mechanical components in service result from fatigue The cracks which grow may either originate from some pre existing macroscopic defect or if the component is of high integrity but highly stressed a region of localized stress concentration In turn such concentrators may

be caused by some minute defect such as a tiny inclusion or inadvertent machining damage Another source of surface damage which may exist between notionally bonded components is associated with minute relative motion along the interface brought about usually by cyclic tangential loading Such fretting damage is quite insidious and may lead to many kinds of problems such as wear but it is its influence on the promotion of embryo cracks with which we are concerned here When the presence of fretting is associated with decreased fatigue performance the effect is known as fretting fatigue Fretting fatigue is a subject drawing equally on materials science and applied mechanics but it is the intention in this book to concentrate attention entirely on the latter aspects in a search for the quantification of the influence of fretting on both crack nucleation and propagation There have been very few previous texts in this area and the present volume seeks to cover five principal areas a The modelling of contact problems including partial slip under tangential loading which produces the surface damage b The modelling of short cracks by rigorous methods which deal effectively with steep stress gradients kinking and closure c The experimental simulation of fretting fatigue

Elements of Structural Optimization

Raphael T. Haftka, Zafer Gürdal, 2012-12-06 The field of structural optimization is still a relatively new field undergoing rapid changes in methods and focus Until recently there was a severe imbalance between the enormous amount of literature on the subject and the paucity of applications to practical design problems This imbalance is being gradually redressed There is still no shortage of new publications but there are also exciting applications of the methods of structural optimizations in the automotive aerospace civil engineering machine design and other engineering fields As a result of the growing pace of applications research into structural optimization methods is increasingly driven by real life problems Most engineers who design structures employ complex general purpose software packages for structural analysis Often they do not have any access to the source program and even more frequently they have only scant knowledge of the details of the structural analysis algorithms used in this software packages Therefore the major challenge faced by researchers in structural optimization is to develop methods that are suitable for use with such software packages Another major challenge is the high computational cost associated with the analysis of many complex real life problems In many cases the engineer who has the task of designing a structure cannot afford to analyze it more than a handful of times

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