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# Handbook of Marine Craft Hydrodynamics and Motion Control

*Vademecum de Navium Motu Contra Aquas et de Motu Gobernando*

Thor I. Fossen

 WILEY

# Handbook Of Marine Craft Hydrodynamics And Motion Control

**Albert A Gayle**



## **Handbook Of Marine Craft Hydrodynamics And Motion Control:**

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**Advances in Guidance, Navigation and Control** Liang Yan, Haibin Duan, Yimin Deng, 2023-02-10 This book features the latest theoretical results and techniques in the field of guidance navigation and control GNC of vehicles and aircrafts It covers a wide range of topics including but not limited to intelligent computing communication and control new methods of navigation estimation and tracking control of multiple moving objects manned and autonomous unmanned systems guidance navigation and control of miniature aircraft and sensor systems for guidance navigation and control etc Presenting recent advances in the form of illustrations tables and text it also provides detailed information of a number of the studies to offer readers insights for their own research In addition the book addresses fundamental concepts and studies in the development of GNC making it a valuable resource for both beginners and researchers wanting to further their understanding of guidance navigation and control

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**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

*Bibliography of Scientific and Industrial Reports* ,1970      **The Shipbuilder and Marine Engine-builder** ,1934      Underwater Science and Technology Information Bulletin ,1969 Includes Citations and Patents abstracts sections      **Who's who of British Engineers** ,1968      The Dynamics of Marine Craft Edward M. Lewandowski,2004

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