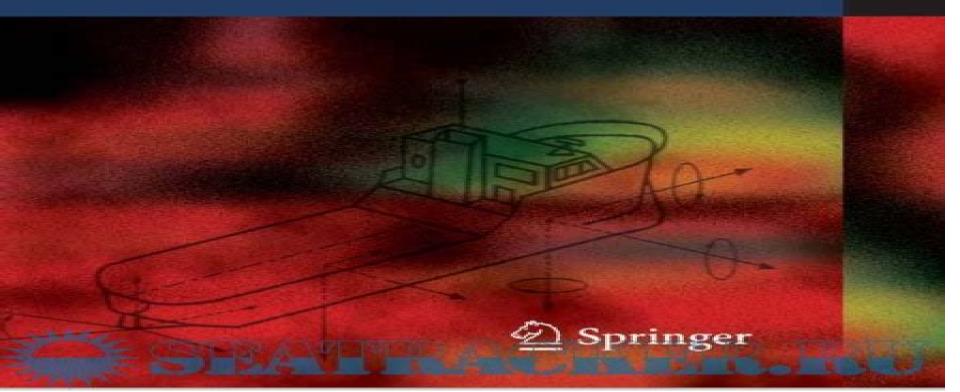


# Ship Motion Control

COURSE KEEPING AND ROLL STABILISATION USING RUDDER AND FINS

Tristan Perez



**Christian G. Meyer** 

**Ship Motion Control** Tristan Perez, 2005-06-08 The impact of control system design on ship performance has been significant in different applications of ship motion control This monograph introduces ship motion control by studying the problems of control system design for course autopilots with rudder roll stabilisation and combined rudder fin stabilisers Ship Motion Control revisits the ingredients that make these control designs challenging and proposes a contemporary control system design approach to meet that challenge Organised in four parts the book deals with appropriate mathematical models of the ship and disturbances understanding of how performance will be assessed knowledge of fundamental limitations on desired performance control system design Ship Motion Control will interest the practising marine engineer and the academic engaged in research into this important control problem even if new to the area It will also be an ideal source of reference for students and tutors involved with marine and control engineering courses Ship Motion Control Tristan Perez, 2006-03-30 engineers into a single volume whilst concentrating on two important research control design problems autopilots with rudder roll stabilization and fin and combined rudder fin stabilization He has been guided by some of the leading marine control academics in particular Mogens Blanke and Thor Fossen indeed Chapters 3 and 4 on kinematics and kinetics of ship motion are jointly authored with Professor Fossen There are some 240 cited references an invaluable resource for interested readers. The volume is likely to appeal to a wide range of readers who will each be able to extract something different from the various parts of the monograph Part I has some four chapters on the modelling fundamentals including kinematics dynamics and actuators Part II is a very useful survey of the ship roll stabilization problem and how ship roll performance is measured and assessed This clearly motivates the human necessity for roll reduction and roll stabilization Parts III and IV move on to the control systems aspects of the various stabilization designs Valuable material here includes a study of system performance limitations as caused by the presence of non minimum phase characteristics and actuator saturation Chapter 10 has an interesting historical review of these marine control problems stretching back some thirty years into the 1970s **Developments in the Collision and Grounding of Ships and** Offshore Structures Carlos Guedes Soares, 2019-10-11 Developments in the Collision and Grounding of Ships and Offshore includes the contributions to the 8th International Conference on Collision and Grounding of Ships and Offshore Structures ICCGS 2019 Lisbon Portugal 21 23 October 2019 The series of ICCGS conferences started in 1996 in San Francisco USA and are organised every three years in Europe Asia and the Americas Developments in the Collision and Grounding of Ships and Offshore covers a wide range of topics from the behavior of large passenger vessels in collision and grounding collision and grounding in arctic conditions including accidental ice impact stability residual strength and oil outflow of ships after collision or grounding collision and grounding statistics and predictions and measures of the probability of incidents risk assessment of collision and grounding prediction and measures for reduction of collision and grounding new designs for

improvement of structural resistance to collisions analysis of ultimate strength of ship structures bulkheads tank tops shell etc design of buffer bows to reduce collision consequences design of foreship structures of ferries with doors to avoid water ingress in case of a collision development of rational rules for the structural design against collision and grounding innovative navigation systems for safer sea transportation the role of IMO classification societies and other regulatory bodies in developing safer ships collision between ships and offshore structures collision between ships and fixed or floating bridges and submerged tunnels collision with quays and waterfront structures collision and grounding experiments properties of marine use materials under impact loadings residual strength of damaged ships and offshore structures analysis of ultimate strength of ship structures to human factors in collision and grounding accidents Developments in the Collision and Grounding of Ships and Offshore is a valuable resource for academics engineers and professionals involved in these areas

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 filtering and nonlinear observer design for marine craft state of the art methods for feedback control more advanced methods using nonlinear theory enabling the user to compare linear design techniques before a final implementation is made linear and nonlinear stability theory and numerical methods companion website that hosts links to lecture notes and download information for the Marine Systems Simulator MSS which is an open source Matlab Simulink toolbox for marine systems The MSS toolbox includes hydrodynamic models and motion control systems for ships underwater vehicles and floating structures With an appropriate balance between mathematical theory and practical applications academic and industrial researchers working in marine and control engineering aspects of manned and unmanned maritime vehicles will benefit from this comprehensive handbook It is also suitable for final year undergraduates and postgraduates lecturers development officers and practitioners in the areas of rigid body modeling hydrodynamics simulation of marine craft control and estimation theory decision support systems and sensor fusion www wiley com go fossen marine Wilev Survey of Instrumentation and Measurement Stephen A. Dyer, 2004-03-24 In depth coverage of instrumentation and measurement from the Wiley Encyclopedia of Electrical and Electronics Engineering The Wiley Survey of Instrumentation and Measurement features 97 articles selected from the Wiley Encyclopedia of Electrical and Electronics Engineering the

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International Conference on Control '91, 25-28 March 1991, 1991 Naval Engineers Journal, 1990 Trans IMarE. .1992 Concise Encyclopedia of Traffic and Transportation Systems M. Papageorgiou, 2013-10-22 The vast expansion of transportation systems on land sea and in the air throughout the twentieth century has allowed for the development of economic social and political connections across the globe undreamed of by our ancestors However this expansion has brought with it familiar problems such as airport delays and gridlock in our major cities Fortunately parallel progress in system science and information technology can provide us with the appropriate tools for rational and efficient solutions to our exponentially increasing transportation demands This encyclopedia addresses the analysis modelling and control of today s and tomorrow s traffic and transportation systems in a concise comprehensive single volume Well over 100 articles have been specially commissioned or revised from the acclaimed Systems Control Encyclopedia to provide an overview of and first reference to models control methods and practical aspects of all forms of traffic and transportation systems with a particular emphasis on efficient utilization of available infrastructure plus a consideration of their historical organizational economic and social impacts The Concise Encyclopedia of Traffic Transportation Systems will be essential for professional and academic scientists and engineers in any discipline concerned with the movement of people and materials **Proceedings** of the Thirteenth Ship Technology and Research (STAR) Symposium, 3rd International Marine Systems Design **Conference (IMSDC), 1988**,1988

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