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ship hydrostatics and stability 3e is a complete guide to understanding ship hydrostatics in ship design and ship performance taking you from first principles through basic and applied theory to contemporary mathematical techniques for hydrostatic modeling and analysis real life examples of the practical application of hydrostatics are used to explain the theory and calculations using matlab and excel the new edition of this trusted resource covers new naval architecture regulations such as second generation intact stability code sgisc and new case studies based on recent capsizes and ship stability disasters extensive reference to computational techniques is made throughout and downloadable matlab files accompany the book to support your own hydrostatic and stability calculations the book also includes tables of notations and technical terms and indexes in french german italian and spanish definitions formulations and methods are provided throughout to facilitate novices rigorous mathematical proofs of the most important theorems are provided examples based on data from real ships are used throughout the book to explain concepts and procedures

this report describes the work undertaken to develop a system identification si approach to the analysis of full scale ship trials in ice the report describes the overall methodology and its application to analysis of ships in open water and the development of syid a user friendly computer application that can be used to analyze open water and ice performance data an

analysis of the data from the Exxon Philadelphia acts as a calibration of the SYD program and illustrates the analysis procedure. Full-scale open water and ice trials of the CCG Sir John Franklin are then used to test the application and generate ice performance data.

The topics reviewed in this volume explore the role of computational model tests and reality in design, engineering, and operation of ships and offshore platforms, divided into four different sections. The subject areas cover advanced vessels, station-keeping, propulsor-hull interactions, and nautical simulators. The present work contains 79 workshop papers and summaries, as well as keynote addresses on the above topics. The contributions will prove indispensable for all those interested in the latest technologies involved in arriving at cost-effective, acceptable, efficient, safe ships and offshore structures.

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