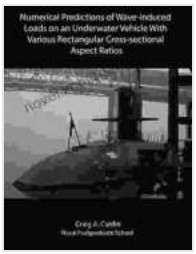
Numerical Predictions of Wave Induced Loads on an Underwater Vehicle



Numerical Predictions of Wave-induced Loads on an Underwater Vehicle With Various Rectangular Cross-sectional Aspect Ratios by Ronald Golembieski

4.7 out of 5

Language	: English
File size	: 6349 KB
Screen Reader	: Supported
Print length	: 153 pages
Lending	: Enabled

Naveen Abraham

This book presents an in-depth analysis of numerical predictions of wave induced loads on an underwater vehicle, with a focus on the estimation of hydrodynamic forces and moments acting on the vehicle in various wave conditions. The book covers a wide range of topics, including the development of numerical methods for solving the governing equations of fluid dynamics, the validation of these methods against experimental data, and the application of these methods to predict the wave induced loads on an underwater vehicle.

The book is divided into three parts. The first part provides an overview of the governing equations of fluid dynamics and the numerical methods used to solve them. The second part focuses on the validation of these methods

against experimental data. The third part applies these methods to predict the wave induced loads on an underwater vehicle.

The book is intended for researchers and engineers working in the field of naval architecture, ocean engineering, and computational fluid dynamics.

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Reviews

"This book is a valuable resource for researchers and engineers working in the field of naval architecture, ocean engineering, and computational fluid dynamics. It provides a comprehensive overview of the state-of-the-art in numerical predictions of wave induced loads on underwater vehicles." - Professor John Grue, University of California, Berkeley

"This book is a must-read for anyone interested in the design and analysis of underwater vehicles. It provides a wealth of information on the numerical prediction of wave induced loads, which is essential for the safe and efficient operation of these vehicles." - Dr. David Subia, Naval Research Laboratory

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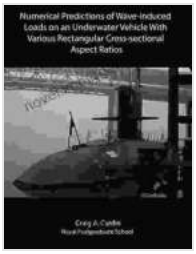

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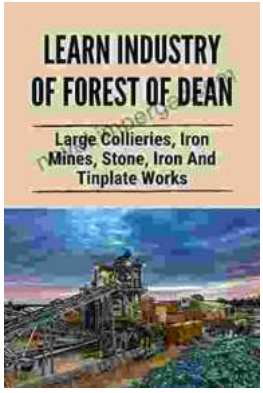

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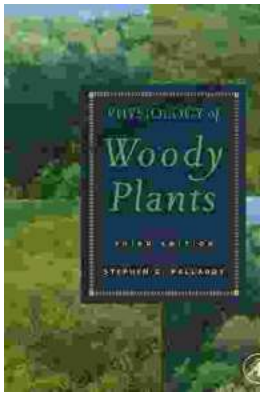

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