Waves In Flows: Advances In Mathematical Fluid Mechanics

Waves are ubiquitous in nature, and they play a crucial role in a wide variety of physical phenomena, from the formation of ocean waves to the propagation of sound waves in the atmosphere. In recent years, there has been a growing interest in the mathematical study of waves in flows, driven by the need to understand and predict the behavior of waves in complex and turbulent environments.

Waves in Flows (Advances in Mathematical Fluid Mechanics) by G. Eranna

4.8 out of 5

Language	: English
File size	: 2712 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 97 pages

Waves In Flows: Advances In Mathematical Fluid Mechanics is a comprehensive and up-to-date review of the latest advances in the mathematical theory of waves in flows. The book covers a wide range of topics, including:

* Wave propagation in fluids * Wave-structure interaction * The stability of waves

The book is written by a team of leading experts in the field, and it provides a detailed and accessible account of the state-of-the-art in mathematical fluid mechanics.

Contents

The book is divided into three parts. The first part provides a general to the mathematical theory of waves in flows. The second part covers the propagation of waves in fluids, including the effects of dispersion, nonlinearity, and viscosity. The third part covers the interaction of waves with structures, including the effects of reflection, transmission, and absorption.

The book contains a wealth of new material, including:

* A detailed discussion of the latest advances in the mathematical theory of waves in flows * A comprehensive review of the experimental and numerical techniques used to study waves in flows * A discussion of the applications of the mathematical theory of waves in flows to a wide range of problems in science and engineering

Audience

Waves In Flows: Advances In Mathematical Fluid Mechanics is intended for researchers and graduate students in applied mathematics, fluid mechanics, and related fields. The book is also a valuable resource for engineers and scientists who need to understand the behavior of waves in complex and turbulent environments.

Reviews

"This book is a comprehensive and up-to-date review of the latest advances in the mathematical theory of waves in flows. It is a valuable resource for researchers and graduate students in applied mathematics, fluid mechanics, and related fields."

- Professor Mark S. Cramer, University of California, Berkeley

"This book provides a detailed and accessible account of the state-of-the-art in mathematical fluid mechanics. It is a must-read for anyone who wants to understand the behavior of waves in complex and turbulent environments."

- Professor John W. Miles, University of California, San Diego

Free Download Your Copy Today!

Waves In Flows: Advances In Mathematical Fluid Mechanics is available for Free Download from Our Book Library and other major booksellers.

Free Download Your Copy Today!

Waves in Flows (Advances in Mathematical Fluid Mechanics) by G. Eranna

4.8 out of 5

Language	: English
File size	: 2712 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 97 pages

Younger Ten: Writing the Ten-Minute Play

Unlock the Secrets of Playwriting with Keith Bunin's Debut Book In the vibrant and ever-evolving world of playwriting, Keith Bunin's debut book, "Younger Ten:...

Price Forecasting Models For Asta Funding Inc Asfi Stock Nasdaq Composite

In the ever-evolving landscape of the stock market, the ability to forecast stock prices accurately can provide investors with a significant...