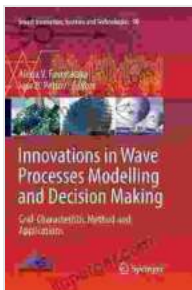


# Innovations in Wave Processes Modelling and Decision Making: A Game-Changer for Coastal Management

In a world where coastal communities face unprecedented challenges from climate change and rising sea levels, the need for innovative and effective coastal management strategies has become paramount. "Innovations in Wave Processes Modelling and Decision Making" is a groundbreaking publication that empowers coastal engineers, scientists, and policymakers with cutting-edge tools and knowledge to address these critical issues.



## Innovations in Wave Processes Modelling and Decision Making: Grid-Characteristic Method and Applications (Smart Innovation, Systems and Technologies Book 90)

by Soodabeh Saeidnia

★★★★☆ 4.1 out of 5

Language : English  
File size : 55560 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 281 pages



## A Comprehensive Guide to Wave Processes Modelling

This comprehensive book provides a deep dive into the latest developments in wave processes modelling, including:

- Advanced numerical models that accurately simulate complex wave behavior in coastal environments
- Innovative techniques for predicting wave-induced currents and sediment transport
- State-of-the-art methods for assessing wave overtopping and coastal erosion

With detailed explanations and practical examples, the book equips readers with the skills to develop and apply wave models for a wide range of coastal engineering applications.

### **Empowering Decision-Makers with Advanced Tools**

Beyond modelling, the book also explores innovative decision-making frameworks that incorporate wave processes information.

- Advanced optimization algorithms for designing resilient coastal structures
- Data-driven approaches for predicting wave-induced hazards and risks
- Cost-benefit analysis techniques for evaluating alternative coastal management strategies

By arming decision-makers with cutting-edge tools, the book enables them to make informed choices that protect coastal communities and ecosystems while fostering sustainable coastal development.

### **Case Studies and Real-World Applications**

To showcase the practical applications of wave processes modelling, the book presents a wealth of case studies from around the world.

- The design of a breakwater system to protect a vulnerable coastal community from storm waves
- The development of a coastal management plan to mitigate erosion and flooding in a rapidly changing shoreline
- The use of wave models to predict the impact of a proposed offshore wind farm on coastal processes

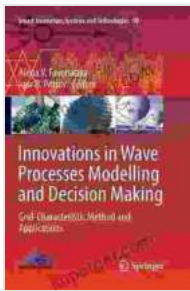
These real-world examples provide invaluable insights into how wave processes modelling can be effectively employed to solve real-world coastal challenges.

### **A Must-Have Resource for Coastal Professionals**

"Innovations in Wave Processes Modelling and Decision Making" is an indispensable resource for coastal engineers, scientists, policymakers, and anyone involved in coastal management. It provides a comprehensive overview of the latest advancements in wave processes modelling and decision-making, empowering professionals with the tools and knowledge to address the complex challenges facing coastal environments.

Whether you are a practicing engineer, a researcher, a student, or a coastal enthusiast, this book will equip you with the knowledge and skills to make a meaningful contribution to sustainable coastal development and resilience.

Free Download your copy today and unlock the transformative power of waves!

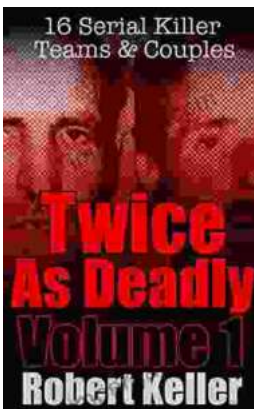


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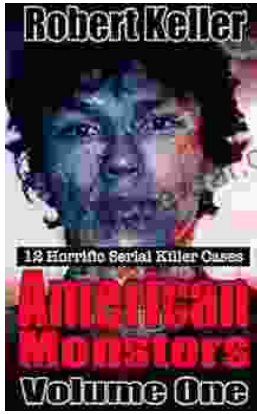
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