



Mathematical Techniques for Wave Interaction with Flexible Structures (IIT Kharagpur Research Monograph Series)

Trilochan Sahoo

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Mathematical Techniques for Wave Interaction with Flexible Structures is a thoughtful compilation of the various mathematical techniques used to deal with wave structure interaction problems. The book emphasizes unique determination of the solution for a class of physical problems associated with Laplace- or Helmholtz-type equations satisfying higher order boundary conditions with the applications of the theory of ordinary and partial differential equations, Fourier analysis, and more.

Features:

- Provides a focused mathematical treatment for gravity wave interaction with floating and submerged flexible structures
- Highlights solution methods for a special class of boundary value problems in wave structure interaction
- Introduces and expands upon differential equations and the fundamentals of wave structure interaction problems

This is an ideal handbook for naval architects, ocean engineers, and geophysicists dealing with the design of floating and/or flexible marine structures. The book's underlying mathematical tools can be easily extended to deal with physical problems in the area of acoustics, electromagnetic waves, wave propagation in elastic media, and solid-state physics.

Designed for both the classroom and independent study, **Mathematical Techniques for Wave Interaction with Flexible Structures** enables readers to appreciate and apply the mathematical tools of wave structure interaction research to their own work.

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