



Wave Mechanics and Wave Loads on Marine Structures

Paolo Boccotti

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Wave Mechanics and Wave Loads on Marine Structures provides a new perspective on the calculation of wave forces on ocean structures, unifying the deterministic and probabilistic approaches to wave theory and combining the methods used in field and experimental measurement. Presenting his quasi-determinism (QD) theory and approach of using small-scale field experiments (SSFES), author Paolo Boccotti simplifies the findings and techniques honed in his ground-breaking work to provide engineers and researchers with practical new methods of analysis.

Including numerous worked examples and case studies, *Wave Mechanics and Wave Loads on Marine Structures* also discusses and provides useful FORTRAN programs, including a subroutine for calculating particle velocity and acceleration in wave groups, and programs for calculating wave loads on several kinds of structures.

- Solves the conceptual separation of deterministic and stochastic approaches to wave theory seen in other resources through the application of quasi-determinism (QD) theory
- Combines the distinct experimental activities of field measurements and wave tank experiment using small-scale field experiments (SSFES)
- Simplifies and applies the ground-breaking work and techniques of this leading expert in wave theory and marine construction

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