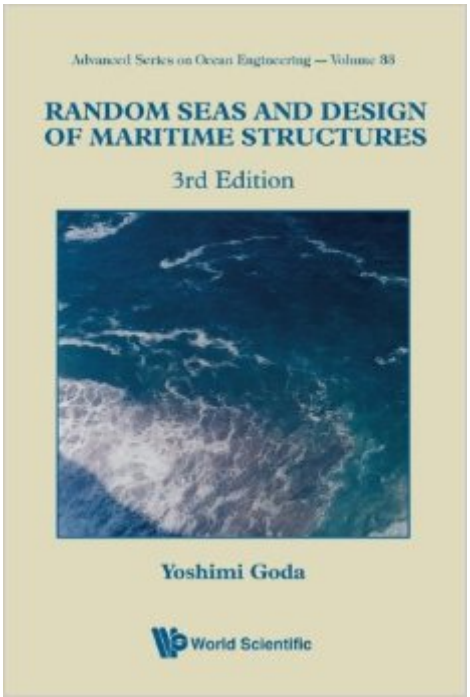
Random Seas And Design Of Maritime Structures (Ocean Engineering) (Advanced Series On Ocean Engineering (Paperback))



Synopsis

Random waves are the most important constituent of the sea environment, as they make the design of maritime structures quite different from that of structures on land. In this book, the concept of random waves for the design of breakwaters, seawalls, and harbor structures is fully explored for easy comprehension by practicing engineers. Theoretical aspects are also discussed in detail for further studies by graduate students and researchers.

Book Information

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Customer Reviews

Safety and reliability engineers responsible for the design of maritime structures can find in Goda's book all necessary background information for the probabilistic description of loads on those structures. No other book currently exists which gives such a complete overview of all methods to describe random sea waves, with particular attention to the extreme waves. This second edition (2000) contains a number of extensions w.r.t. the first edition (1985) and some sections have been rewritten. The reviewer especially enjoyed studying Goda's outline on correlation models between successive wave heights, marginal probability density functions of wave periods, and joint distributions of wave heights and periods of waves with narrow-band spectra.

Not exactly bedtime reading, but definitely a bit of a bible on the subject. Certainly covers the theory in much more detail than the many design standards that refer to it...

Excellent. Well written.

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