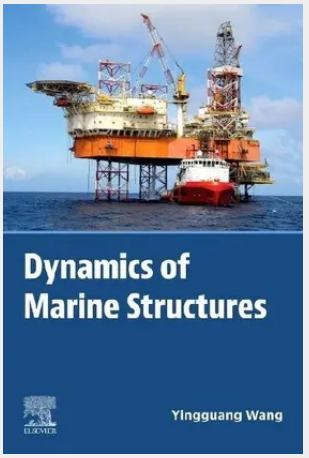
Wang

Dynamics of Marine Structures

Dynamics of Marine Structures begins by outlining foundational concepts of stochastic wave theory to facilitate cardinal understanding of nonlinear dynamical systems in the marine environment that respond to complex interactions with a wide range of factors. The book then illustrates, in detail, up-to-date statistical methods and hydro-elastic numerical modeling techniques to accurately predict extreme responses and operating limits of marine structures. Next, users will find comprehensive practical guidance on how to undertake marine structural design work for a variety of structures, including ships, sea walls, vertical breakwaters, harbors, and offshore energy facilities. Finally, the volume also reviews existing literature and summarizes the latest applied research investigations for students, researchers, and professional engineers alike, thus paving the way for further advancements in next-generation marine construction in support of global sustainable development targets.

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