



# Ocean Engineering Mechanics: With Applications

By Michael E. McCormick

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Ocean Engineering Mechanics is designed to give an introduction to water waves and wave-structure interactions for fixed and floating bodies. Linear and nonlinear regular waves are thoroughly discussed, and the methods of determining the averaged properties of random waves are presented. With this foundation in wave mechanics, applications to engineering situations in the coastal zone are then presented. This introduction to the coastal engineering aspects of wave mechanics includes an introduction to shore protection. Covered within are also the basics of wave-structure interactions for situations involving ridged structures, compliant structures, and floating bodies in regular and random seas. The final chapters deal with the various analytical methods available for the engineering analyses of wave-induced forces and motions of floating and compliant structures in regular and random seas. An introduction to the soil-structure interactions is also included. The book can be used for both introductory and advanced courses in ocean engineering mechanics.

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## **Ocean Engineering Mechanics: With Applications** By Michael E. McCormick Bibliography

- Sales Rank: #3051909 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2009-10-12
- Original language: English
- Number of items: 1
- Dimensions: 9.96" h x 1.30" w x 8.46" l, 2.65 pounds
- Binding: Hardcover
- 618 pages

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#### About the Author

Michael E. McCormick is currently a Corbin A. McNeill Professor in the Department of Naval Architecture and Ocean Engineering at the US Naval Academy. He is a Fellow of the Marine Technology Society, the American Society of Mechanical Engineers, and the American Society of Civil Engineers. In 1976, he became the co-editor of the journal Ocean Engineering and remained so for thirty years. Prior to that, he was the editor of the Marine Technology Society Journal. Professor McCormick was the first recipient of the US Naval Academy Alumni Award for Research Excellence and was also awarded the US Navy Meritorious Civilian Service Award and the US Navy Superior Civilian Service Award. He is the author of Ocean Engineering Wave Mechanics and Ocean Wave Energy Conversion. Professor McCormick received a Ph.D. in mechanical engineering from the Catholic University of America and a Ph.D. in civil engineering and a Sc.D. in engineering science from Trinity College, Dublin.

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