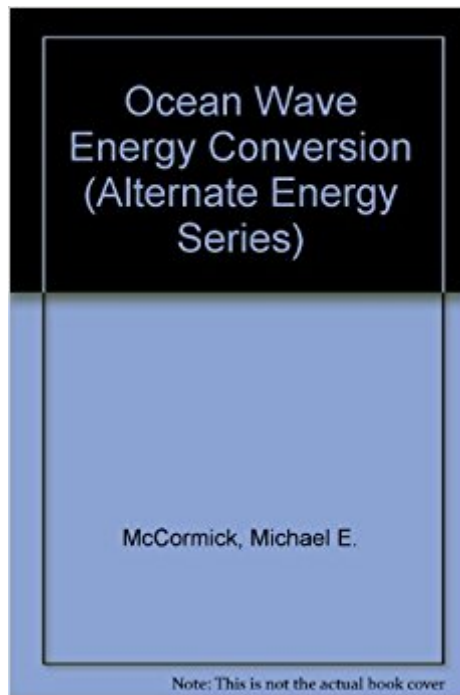




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Ocean Wave Energy Conversion (Alternate Energy Series)



Synopsis

This volume will prove of vital interest to those studying the use of renewable resources. Scientists, engineers, and inventors will find it a valuable review of ocean wave mechanics as well as an introduction to wave energy conversion. It presents physical and mathematical descriptions of the nine generic wave energy conversion techniques, along with their uses and performance characteristics. Author Michael E. McCormick is the Corbin A. McNeill Professor of Naval Engineering at the U.S. Naval Academy. In addition to his timely and significant coverage of possible environmental effects associated with wave energy conversion, he provides a separate treatment of several electro-mechanical energy conversion techniques. Many worked examples throughout the book will be particularly useful to readers with a limited mathematical background. Those interested in research and development will benefit from the extensive bibliography. --This text refers to the Paperback edition.

Book Information

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Customer Reviews

This is a reasonable read with a lot of good information. There are many equations available to help the engineer understand the physics of what is happening. Non-engineers may want to find a different book, or skip over any sections with equations. Unfortunately, there are numerous errors in the equations. One great thing is that there are a lot of "worked examples" in this book so it is possible to test your understanding of the equations (and prove that the book has errors). Perhaps

the bigger problem with the book is that it is so old (1981). Wave power has progress a lot since then. The book is well written and carefully considered. It is unfortunate that no one has had a chance to update the book. On the other hand, the physics of wave power does not change, so that section of the book is fine. If the author writes a Wave Power 2010, I would definitely pick that up.

I bought this book for a class (required text), but I think I only opened the book a few times. It seemed a little dated. I traded it back to after the class was over. I just wasn't very impressed and I didn't find it useful. My class was Ocean Energy Conversion and wave energy conversion was about half the class.

Although republished in 2007, a great majority of the content is from the original publication from the early 1970's. If the educational content of this textbook is from the 1970's, I question the feasibility of ocean wave energy conversion technology.

I borrowed this from the local varsity library and appreciated it's excellent readable style, dual unit use and relevant examples so much as to make this a must buy and I have done just that. Sensible comparison of various wave energy conversion technologies show how to assess WEC methods. As a prelude to McCormick's later, more advanced books, this is certainly one that should involve the reader in this fascinating technology.

This book, albeit somewhat outdated, provides an excellent overview on Ocean Wave Energy conversion. The mathematics is quite easy to follow. The patent overview in the appendix is very instructive. Highly recommended as an introductory book on wave energy conversion

This book, although quite dated (1982), gives a broad view on wave energy conversion and the basic techniques used. The math is easy to follow and the examples appear to have correct solutions. I enjoyed reading it.

The value of this book is far more than its \$ 15.95 donation price ! Hope the author can see this review note. Hope to see a new version soon. That can show even more latest ocean energy deives. Keep going !

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