



#### Access

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## Book description

Understand the interaction between ocean waves and oscillating systems with this useful new edition. With a focus on linear analysis of low-amplitude waves, you are provided with a thorough understanding of wave interactions, presented to be easily accessible to non-specialist readers. Topics covered include the background mathematics of oscillations, gravity waves on water, the dynamics of wave-body interactions, and the absorption of wave energy by oscillating bodies and oscillating water columns. Featuring new content throughout, including three new chapters on oscillating-body wave energy converters, oscillating water columns and other types of wave energy converters, and wave energy converter arrays, this book is an excellent resource for students, researchers, and engineers who are new to the subject of wave energy conversion, as well as those with more experience.

## Reviews

'Falnes and Kurniawan investigate thoroughly and comprehensively, using robust analysis tools, a very important sector of modern technology - namely how bodies oscillate subjected to ocean waves. The content of the book covers the entire area between standard configurations up to the sophisticated wave energy conversion systems. The book is indeed a valuable tool that will be treasured by students, researchers and the water wave community at large.'

Ioannis K. Chatjigeorgiou - National Technical University of Athens

'Whether you are a newcomer to wave energy or a seasoned researcher, there is always something you can learn from Professor Falnes. I am happy to see this second edition, and am delighted to recommend it as a reference of fundamental importance in the field.'

Umesh Korde - Johns Hopkins University