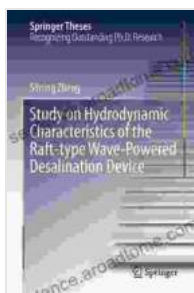


# Study On Hydrodynamic Characteristics Of The Raft Type Wave Powered

The raft type wave powered is a wave energy converter that converts the energy of waves into electricity. It consists of a floating raft that is connected to a generator. The raft moves up and down with the waves, and this motion is used to drive the generator.



## Study on Hydrodynamic Characteristics of the Raft-type Wave-Powered Desalination Device (Springer Theses) by Martin Ostoja-Starzewski

★★★★★ 5 out of 5

Language : English  
File size : 12455 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 200 pages  
Screen Reader : Supported



The hydrodynamic characteristics of the raft type wave powered are important for understanding its performance. These characteristics include the wave power absorption efficiency, the power take-off efficiency, and the overall efficiency.

The wave power absorption efficiency is the ratio of the power absorbed by the raft to the power of the waves. The power take-off efficiency is the ratio of the power generated by the generator to the power absorbed by the raft.

The overall efficiency is the product of the wave power absorption efficiency and the power take-off efficiency.

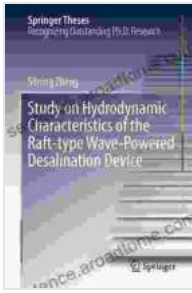
A study on the hydrodynamic characteristics of the raft type wave powered was conducted using numerical simulations and experimental measurements. The numerical simulations were used to model the motion of the raft and the generator. The experimental measurements were used to validate the numerical simulations.

The results of the study showed that the raft type wave powered has a high wave power absorption efficiency and a high power take-off efficiency. The overall efficiency of the raft type wave powered was found to be around 30%.

The study also found that the hydrodynamic characteristics of the raft type wave powered are affected by a number of factors, including the size of the raft, the shape of the raft, and the weight of the raft.

The results of this study can be used to design and optimize the raft type wave powered for maximum performance.

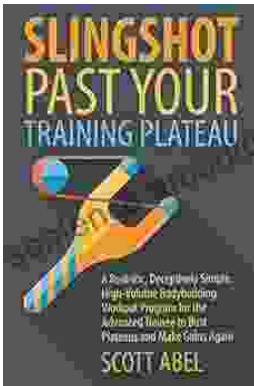
The raft type wave powered is a promising wave energy converter that has the potential to generate electricity from waves. The hydrodynamic characteristics of the raft type wave powered are important for understanding its performance. This study has provided new insights into the hydrodynamic characteristics of the raft type wave powered. The results of this study can be used to design and optimize the raft type wave powered for maximum performance.



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