Accepted Manuscript

Fully Enclosed Multi-Axis Inertial Reaction Mechanisms for Wave Energy Conversion

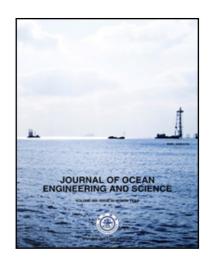
I.A. Antoniadis, V. Georgoutsos, A. Paradeisiotis

PII: S2468-0133(16)30059-6 DOI: 10.1016/j.joes.2017.02.003

Reference: JOES 38

To appear in: Journal of Ocean Engineering and Science

Received date: 9 October 2016 Revised date: 5 February 2017 Accepted date: 9 February 2017



Please cite this article as: I.A. Antoniadis, V. Georgoutsos, A. Paradeisiotis, Fully Enclosed Multi-Axis Inertial Reaction Mechanisms for Wave Energy Conversion, *Journal of Ocean Engineering and Science* (2017), doi: 10.1016/j.joes.2017.02.003

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- A novel concept for wave energy conversion, using enclosed internal body mechanism configurations.
- Dynamically, the internal body is equivalent to a vertical physical pendulum.
- Physically, the internal body performs like a translating mass.
- The linear motion of the suspended bodys center of mass, enables a simple form of a Power Take-Off design.
- Optimization of the design ensures minimization of the suspended mass.
- The concepts flexibility, enables implementation in any form of floating vessels.

Download English Version:

https://daneshyari.com/en/article/7216693

Download Persian Version:

https://daneshyari.com/article/7216693

<u>Daneshyari.com</u>