

The variable displacement oil-hydraulic pumps for the Power Take-Off (PTO) of wave energy converters must work above 80% of maximum displacement in order to have an ...

To improve the efficiency and stability of an eccentric rotating wave energy converter (ERWEC), the adaptive hydraulic power-take-off (PTO) system with an accumulator ...

A novel hydraulic power take-off (PTO) system based on the volumetric regulation and energy-storage principle is proposed to improve the performance of the hydraulic-type wave energy ...

Antonio, F.d.O. Modelling and control of oscillating-body wave energy converters with hydraulic power take-off and gas accumulator. *Ocean Eng.* 2007, 34, 2021-2032.

Falc&#227;o, Ant&#243;nio De O. "Modelling and Control of Oscillating-Body Wave Energy Converters with Hydraulic Power Take-off and Gas Accumulator." *Ocean Engineering*, Elsevier BV, 2007.

The hydraulic power take-off (HPTO) is considered as the most promising method to convert wave power to electrical power. This paper presents an experimental ...

The governing equations for the wave energy absorption hydrodynamics and for the power take-off hydraulic circuit are presented in 2 Governing equations, 3 Floating ...

A power take-off oil-hydraulic system is designed for an oscillating wave surge converter. The adaptation of the converter to the power take-off is performed with genetic ...

A wave energy converter (WEC) utilizing the inertial gyroscope coupled with a hydraulic power take-off (PTO) unit for energy transformation and application is investigated.

Since the hydraulic power take-off (PTO) is a widely-utilized transmission device for oscillating-body wave energy converters, its parameter configurations need to be optimized ...

In the present work, the dynamic coupling between a self-reacting floating two-body wave-energy converter (WEC) and hydraulic power take-off (PTO) system is evaluated. ...

The buoy is connected to a hydraulic power take-off (PTO) system equipped with an accumulator, enabling it to capture wave energy. First, the MPS method is validated by comparison with ...

Short Answer: Hydraulic accumulators store energy by using a pressurized fluid, typically oil or water, to

store potential energy. The accumulator consists of a chamber that ...

The AQWA software is often used to perform hydrodynamic analysis, and it is highly convenient for performing frequency domain simulations of Pelamis-like wave energy ...

The Coulomb friction force and viscous friction force based on the pressure difference and hydraulic cylinder parameters are modeled in the power take-off force. Under a ...

This study analyzes optimization using the Sequential Quadratic Programming (SQP) method in MATLAB/SimScape, leading to a more comprehensive understanding of the ...

A generic oil-hydraulic based power take-off concept applicable to different Wave Energy Converters is presented. This power take-off is developed to have well-adapted ...

Abstract: To improve the efficiency and stability of an eccentric rotating wave energy converter (ERWEC), the adaptive hydraulic power-take-off (PTO) system with an ...

This paper describes the hydraulic power take-off system employed in the Pelamis wave energy converter. The process of the system's development is presented, ...

This study aims to determine the optimal pressure for the accumulator tank in a wave energy converter (WEC) with hydraulic power take-off (PTO) to maximize energy ...

The size of the system, in particular, of the main hydraulic pump, is also substantially increased. Thus, the addition of accumulators, to control the pump size, is ...

This paper presents a study of practically implementable active tuning methods for a Wave Energy Converter (WEC) power take-off (PTO). It is distinguished from other ...

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