

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 ...

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 accumulator is ...

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 ...

Falcão, António De O. "Modelling and Control of Oscillating-Body Wave Energy Converters with Hydraulic Power Take-off and Gas Accumulator." Ocean Engineering, Elsevier BV, 2007.

This study focuses on the wave energy converter of a hydraulic power take-off (HPTO) connected to a pendulum and studies the influences of the key components, i.e. the high-pressure ...

A typical efficient energy conversion system for point absorbers is based on hydraulic power take-off (PTO) systems, consisting in a double-acting cylinder, a hydraulic ...

Request PDF | Modelling and control of oscillating-body wave energy converters with hydraulic power take-off and gas accumulator | Oscillating bodies constitute a major class ...

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 ...

The hydraulic power take-off (PTO) system of wave energy converter (WEC) is a key component of the floating wind-wave hybrid system. It has a notable influence not only on ...

