Energy storage device hydraulic vibration reduction

The invention patent of the self-tuning hydraulic vibration energy absorption is suitable for the situations with high speed, precision, light load and small and medium energy ...

This paper proposes a novel hydraulic energy storage component (NHESC) that integrates hybrid energy storage through the use of compressed air and electric energy.

This study introduces a novel phase change material (PCM)-based solar energy storage system integrating Tesla valve-inspired eddy current structures and mechanical ...

The hydraulic energy storage component (HESC) is the core component of hydraulic energy regeneration (HER) technologies in ...

This paper proposes a novel hydraulic energy storage component (NHESC) that integrates hybrid energy storage through the ...

A hydraulic vibration damping and energy storage device technology, which is applied in the direction of shock absorber, spring/shock absorber ...

The invention discloses an intelligent hydraulic vibration reduction electromagnetic energy storage device, which comprises a support module (100), a hydraulic vibration reduction module (200), ...

Electrical recovery strategies utilize batteries or supercapacitors for energy storage, aligning with the trend toward electrification. Electro-hydraulic hybrid systems integrate ...

Hence, hydraulic compressed air energy storage technology has been proposed, which combines the advantages of pumped storage and compressed air energy storage ...

A hydraulic vibration damping and energy storage device technology, which is applied in the direction of shock absorber, spring/shock absorber design features, vibration suppression ...

Keywords: dynamic vibration absorber, energy harvesting, particle swarm optimization, artificial neural networks, mechanical inerter, hydraulic amplifier Citation: ...

The hydraulic energy storage component (HESC) is the core component of hydraulic energy regeneration (HER) technologies in construction equipment, directly ...

On the basis of the analysis and research on energy consumption required by vibration isolation of the related suspensions and the potential of energy recovery of the ...

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