

Inductive energy storage experimental device

An inductive energy storage device [6] in combination with trigger-less ignition methods [7] was implemented. This configuration presents many benefits, such as a decrease in the size of a ...

Abstract. The work presents experimental study results of gas discharge interrupter with a sector hole in the screen and a circular grid hole being asymmetrically placed regarding central axis ...

Laser on nitrogen-electronegative gas mixtures, pumped by inductive energy storage generator: Experiment and theoretical ... Due to the low cost of working gas, simplicity of design, and ...

Through the experiment, we find that the simple inductive energy storage circuit uses MOSFET as an opening switch, which can simplify the traditional inductive energy storage circuit. Using ...

The all-solid-state inductive energy storage pulse forming line modulator is a brand-new solution to achieve a high repetition rate, high voltage gain, and short pulse output. However, due to the ...

???? There exists strong electromagnetic radiation in inductive energy storage accelerators can destroy a measuring device at a distance repeated experiments, we found that it is a ...

Results are presented of experimental investigations of a CO₂ laser pumped by a self-sustained discharge from a generator with an inductive energy storage device and a semiconductor ...

The equalization topologies based on inductive energy storage have high equalization accuracy and perfect functionality, but often have more complex structure and ...

During that - time, some major technological breakthroughs were achieved, such as the development of an inductive energy storage device [6], the combination of the inductive ...

The energy storage/conversion device needs neither a power supply nor a motor/generator and is able to complete the energy storing-releasing cycle of mechanical ...

The possibility of adjusting the output voltage of a high-voltage nanosecond pulse generator with inductive energy storage and a solid-state switching system was investigated. All components ...

Abstract: The all-solid-state inductive energy storage pulse forming line modulator is a brand-new solution to achieve a high repetition rate, high voltage gain, and ...

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Wire explosive choppers are simple, reliable, and high-power devices. Including them into experimental facilities with inductive energy storage is economically sound and, moreover, ...

Abstract The invention discloses an experimental device for an electric explosion wire breaking switch in an inductance energy storage type pulse power system. The experimental device of ...

Conclusion. The developed numerical model allows to calculate energy capacity and energy losses in superconducting inductive energy storage devices configured as ...

The energy storage of the experimental device built with reference to the optimization result reaches 121 kJ, the energy density reaches 3.3 MJ/m³, and the peak output ...

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