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Title: Inductive energy storage system short circuit switch

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Prospective development of one new type of opening switch, a plasma switch, is also discussed to illustrate further possibilities for improved performance of these systems, including repetitive ...

A mechanical switch employing sliding electrical contacts was built and tested in an inductive energy storage circuit. The switch has successfully commutated currents up to 10.5 kA at repetition rates up ...

In this study, a bidirectional coupled-inductor-based solid-state circuit breaker designed to provide short-circuit protection within BESS while effectively minimizing voltage ripple is...

the current as required--that is, operate as a closing switch. To accomplish current interruption, the opening switch must force the current to transfer from the switch to a parallel circuit branch (e.g. a ...

This paper presents a systematized review of the research on the production of nanosecond high-power pulses using solid-state generators based on an inductive energy store and ...

In light of the paramount importance of a circuit breaker, this paper presents and explores a novel solid-state circuit breaker (SSCB) based on a coupled-inductor. The proposed SSCB can exhibit the ...

To increase energy efficiency of this method, a pulsed power generator should output a pulsed power of a high peak and a short pulse width and be low circuit loss, high ...

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.

This paper describes the use of the BOSS photoconductive switch as an opening switch in an inductive energy storage circuit consisting of a 200-!l current-charged transmission line.



Inductive energy storage system short circuit switch

When designing a high-voltage solid-state battery disconnect switch, there are several fundamental design decisions to consider. Among the key factors are semiconductor technology, ...

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