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Can a boost inverter based bipolar high voltage pulse generator provide high-voltage gain?
In this paper,a boost inverter-based bipolar high voltage pulse generator with high-voltage gain is proposed. The proposed generator can provide high-voltage bipolar output pulses with the desired specifications from a low input DC voltage.

Is a distributed pulser a novel high-voltage pulse power generator?
This paper presents a novel high-voltage pulse power generator utilizing a distributed pulser architecture. It combines gallium nitride (GaN) transistors in a Marx topology with an inductive adder, achieving nanosecond-scale switching speeds and high-power efficiency.

What is high-voltage pulse power generation?
High-voltage pulse power generation systems represent a pivotal technology in modern engineering,enabling the delivery of rapid,high-energy pulses that are essential across a spectrum of applications,including industrial processing,environmental remediation,and medical treatments.

What is a high-voltage pulse generator (HVPG)?
This results in a pulse capable of delivering substantial power to a des- ignated target. High-voltage pulse generators (HVPG) find extensive applications in emerging applications, such as ultra- wideband radiation, material modification, cancer treatment, sterilization, and fusion systems.

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1. Introduction Pulse power technologies have become increasingly prominent in recent years due to their ability to generate high-voltage and short-duration pulses, which have significant ...

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