

Capacitor banks storing one or more megajoules and costing more than one million dollars have unique problems not often found in smaller systems. Two large banks, Scyllac at Los Alamos ...

If you're reading this, you're probably either an electrical engineer trying to design better energy storage systems, a student Googling "how do capacitors actually work?", or ...

Electrostatic capacitors, renowned for their ultrafast charge-discharge dynamics and exceptionally high-power density, play an essential role in modern high-power electronics ...

High-performance BaTiO₃ (BTO)-based dielectric ceramics have great potential for high-power energy storage devices. However, its poor temperature reliability and stability due to its low ...

1. Introduction The pulsed-power energy source described in this report was meant to replace a laboratory setup in which a particular type of miniature electrothermal (ET) launcher was ...

Energy-storage devices called capacitors deliver power rapidly, but the amount of energy they can absorb is limited. Deliberately disordered electric dipoles in "antiferroelectric" ...

Ceramic-polymer nanocomposites are regarded as promising dielectric materials for future miniaturized capacitor applications in modern electronics. In this review, various ...

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