

Superconducting magnetic energy storage (SMES), for its dynamic characteristic, is very efficient for rapid exchange of electrical power with grid during small and large disturbances to address ...

Magnetic Permeability: Exhibits high magnetic permeability for effective flux handling. Low Electrical Conductivity: Reduces energy loss, especially in high-frequency applications. Adjustable Permeability: This can be ...

Load frequency control enhancement of islanded micro-grid considering high wind power penetration using superconducting magnetic energy storage and optimal controller ...

This article presents an up-to-date review of the short-term wind power smoothing topic. This study focuses on very fast response and high-power ESS technologies such as the ...

Spinel ferrites are widely investigated for their widespread applications in high-frequency and energy storage devices. This work focuses on enhancing the magnetic and dielectric properties of $\text{Ni}_{0.25}\text{Cu}_{0.25}\text{Zn}_{0.50}$...

Silveyra et al. review the development of current soft magnetic materials and opportunities for improving their performance in high-frequency operation. Materials being explored include soft ferrites, amorphous and ...

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