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In this paper, we propose an ultra-light electrolytic capacitor appearance defect detector based on YOLOv5, without compromising the detection accuracy. MobileNet, GConv ...

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High-voltage large-capacity capacitors, as an indispensable important electrical equipment in the power grid system, have important applications in many scenarios such as transmission lines, substations, and the end of distribution lines. In the course of use, if problems such as insulation aging occur, it may threaten the personal safety of the people and staff and cause huge ...

The purpose of partial discharge detection of high-voltage large-capacity capacitors is to detect the internal defects of the capacitor before the capacitor fails, to understand the insulation state of the equipment in time, to better monitor the deterioration process of the equipment, and to effectively understand the current reality of the ...

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For instance, the rated field of DC-link capacitors in VSC-HVDC can be more than 200 kV/mm, almost three times higher than shunt capacitors and twice higher than DC filter capacitors. To achieve such performances, metalized film capacitors (MFC) are adopted. Comparing with conventional liquid impregnant capacitors, the high energy density of MFCs is ...

This paper proposes a means to achieve fast fault detection through low blanking capacitance, ensuring no spurious converter trip. The proposed fault-detection and protection scheme is ...

Transient response improvement of a capacitor-less low-dropout regulator with input current-differencing is presented in this paper. The Miller compensation technique with series resistance is used to establish the stability and reduce the on-chip capacitor. As a result, the on-chip compensation capacitor of the proposed LDO is reduced to 4 pF which makes it ...

In this study we demonstrate how conventional high-low CV analysis of MOS capacitors at cryogenic temperatures can be applied to detect and quantify these very fast traps. Discover the world's ...

This paper presents a multi-functional multiplexed super capacitor fast power control system with frequency stability control and voltage sag control mode. A fast frequency ...

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Along slower but highly accurate methods, novel quick, traceable, and effective measurement techniques are required to evaluate SCs' State of Charge (SoC) and State of Health (SoH) and to promote the uptake of SC and banks in consumer, energy, transport, aerospace and in many other applications. The MetSuperCap project aims to improve the ...

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