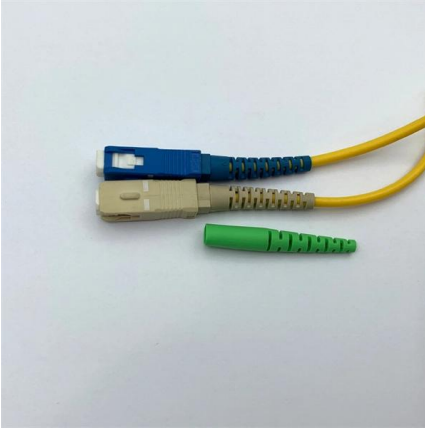


10kV bus resonant operation





10kV bus resonant operation



Analysis of a Solid-State Transformer Employing Capacitively Isolated

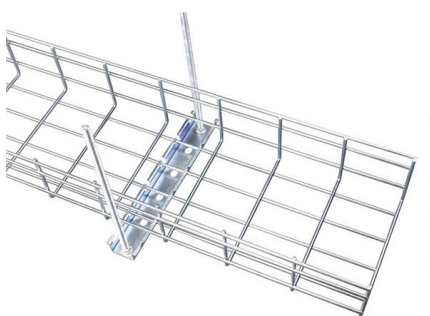
As a countermeasure, the decoupling impedance between the primary-side converter cells should be maximized, which is achieved by minimizing the series resonant capacitor and thus maximizing

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High-frequency resonant operation of an integrated

To address the gate driving challenge, this paper contributes with the design of an integrated package of high-voltage semiconductor devices and

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High-frequency resonant operation of an integrated

This paper presents a current source resonant inverter (CSRI) employing a custom designed power module utilizing 1700V SiC MOSFETs for

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Analysis and Measures of 10kV Bus PT Breakdown Accident

A 10kV bus PT breakdown accident caused by two-phase grounded is mainly introduced in this paper. Firstly, the bus voltage variation is analyzed when two-phase grounded occurs. Then, the



Modeling of the High-Frequency Rectifier With 10-kV SiC JBS Diodes

The superior material properties of the wide bandgap silicon carbide (SiC) semiconductors enable excellent device characteristics such as low on-resistance, high breakdown voltage, fast

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Ferromagnetic Resonance Overvoltage Study and Suppression

Therefore, studying the ferromagnetic resonance overvoltage of electromagnetic voltage transformers in low-voltage distribution networks is crucial to improving the safe and stable operation

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Comprehensive Modeling, Optimization and Experiment of 10 kV/15

The DC circuit breaker (DCCB) is the core equipment for ensuring the safe and stable operation of the DC transmission system. It often requires high response times.

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Design and demonstration of a SiC-based



800-V/10-kV 1-MW

Request PDF , On Jun 1, 2017, Fan Zhang and others published Design and demonstration of a SiC-based 800-V/10-kV 1-MW solid-state transformer for grid-connected photovoltaic systems , Find, read

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2022_Tolbert_ETH-Presentation

A simple and comprehensive test scheme is proposed to thoroughly test phase leg based on 10 kV SiC MOSFETs, especially operation under high dv/dt and its resulting noise.

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Analysis of 10kV Voltage Transformer Burning Accident

The resonance voltage is the lowest in the frequency division resonance region, and the resonance can be triggered if the system fluctuates slightly under the normal rated voltage.

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Comprehensive Modeling, Optimization and Experiment of 10 kV/15

Request PDF , Comprehensive Modeling, Optimization and Experiment of 10 kV/15 kA Forced Resonant DC Circuit Breaker , The DC circuit breaker (DCCB) is the core equipment for

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Design of High Voltage Pulse Generator Based on SiC Resonant

Figure 2(b) is the LLC operation waveforms. V_{ab} , i_{Lr} , i_{oL} are the voltage between a and b, resonant current and LLC output current, respectively. The V_{ab} is equal to V_{in} when Q3 turns on and the V_{ab}

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Impedance-frequency characteristic curve of 10kV bus

Due to the 34th resonance at the 35kV bus at the distance of 26.3km from the main transformer, the 34th harmonic current and voltage amplification phenomenon in

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AC Resonant Test System

AC Resonant Test Systems are particularly beneficial in scenarios where the load is predominantly capacitive with minimal loss. This includes applications such as

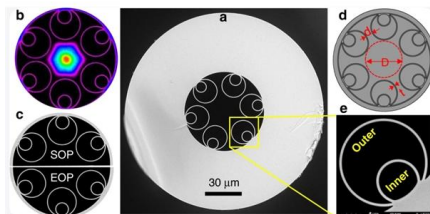
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Research on High Harmonic Amplification of 10kV

Based on the analysis of the reasons for the use of static var generator in the power grid and the existing conditions of even harmonic, the impedance

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Research on Resonance Eliminator Installation Program in 10kV

To deal with the issue, the model of two bus-TVs in parallel operation is built up by ATP-EMTP, and the suppression effect of different resonance eliminator installation programs on over-voltages and over

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Ferroresonant Phenomena on 6 to 10kV Substation Buses

Procedures for limiting and nonadmission of ferroresonance overvoltages and overloads of the equipment are proposed.

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The ferroresonance of 10kV distribution PT during live working

When the lead wires of an inductive potential transformer (PT) of a distribution network are overlapped with electricity, ferro-resonance often occurs, which will cause serious damage to the

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Why Unequal Capacitor Banks Rating Cause Humming

However, one of the least understood yet commonly observed problems is the humming or vibration of capacitor panels -- especially when

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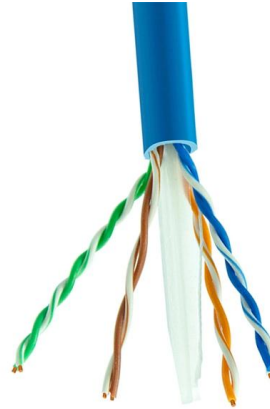
High-frequency resonant operation of an



integrated medium-voltage

Industrial processes which use induction and dielectric heating are still relying on resonant converters based on vacuum tubes. New emerging medium-voltage silicon carbide (SiC)

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Product Catalog



High-frequency resonant operation preview & related info , Mendeley

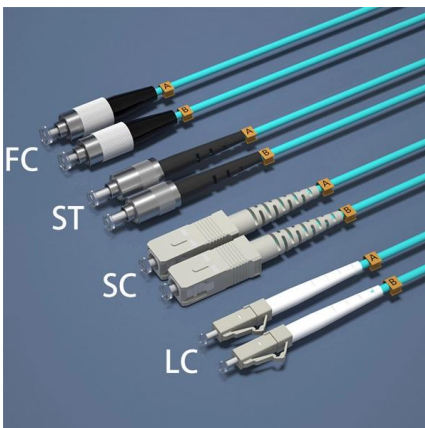
Abstract Industrial processes which use induction and dielectric heating are still relying on resonant converters based on vacuum tubes. New emerging medium-voltage silicon carbide (SiC)

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PB_8.04_WRVG_WRVM_en_Web

Test system and test object form a series resonant circuit that guarantees a pure sinusoidal waveform of the test voltage due to physics. In case of failure, only minimal damage may occur due to the limited

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Design of a 10 kV SiC MOSFET-based high-density, high

Simultaneously imposed challenges of high-voltage insulation, high dv/dt, high-switching frequency, fast protection, and thermal management associated with the adoption of 10 kV

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Method for generating switching operation sequence of distribution

When a large-area power outage caused by 10kV bus fault occurs in distribution network, the dispatchers transfer the lost load by experience, which will lead to a large area blackout. So a

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Analysis and Measures of 10kV Bus PT Breakdown Accident

Abstract: A 10kV bus PT breakdown accident caused by two-phase grounded is mainly introduced in this paper. Firstly, the bus voltage variation is analyzed when two-phase grounded occurs.

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PowerPoint Presentation

Extreme power density & efficiency >> &
Provides stiff input voltage for the second stage
Does not participate in resonant operation

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Method for generating switching operation sequence of distribution

When a large-area power outage caused by 10kV bus fault occurs in distribution network, the dispatchers transfer the lost load by experience, which will lead to

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Development and Application of a 10 kV Mechanical DC

A DC circuit breaker is piece of core equipment for DC grid construction and can achieve fast isolation of DC faults in the grid. In this paper,

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PB-8.02_WRV-T_en_Webv

The main application for the AC resonant test system is the AC withstand testing after the cable system has been installed. This test is often combined with PD diagnosis on cable joints and terminations.

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<https://www.frindel.es>