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**Abstract:** The proceedings contain 256 papers. The topics discussed include: research on turn-off control strategy of novel hybrid commutated converter based on reverse blocking IGCT; multi-resolution optimization methodology of voltage and reactive power in new distribution systems; practical calculation model for short-circuit current of doubly fed induction generator in large power grids; a simple common-mode voltage reduction method for back-to-back five-level ANPC converters; the multilevel turn-off method and improved detection circuit are proposed for SiC MOSFET short-circuit; modeling and analysis of key impact mechanisms of voltage quality considering large-scale wind power grid-connected scenarios; analysis and model of high frequency harmonic impedance of grid connected DFIG wind turbines; and study on the aging characteristics of silicone rubber for ultra-high voltage indoor composite insulators.

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