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The total losses (12.7 W) are therefore acceptable for the brake chopper when compared to the reference power value (55 W at 22 A) deduced from the nominal operation presented in the documentation for each IGBT.. Remark 6.6. A free-wheel diode is used in the brake chopper in order to process the (inevitable) inductive behavior of the dissipation resistance and the associated cables.

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The kernel function is applied to extract the information for accurate prediction. The exponential kernel function is used to create a model, but this method is complicated. The lookup table method has been applied in a simulation to approximate switching as well as on-state losses of the IGBT transistors [14,15]. This method gives an automatic, compact, and accurate model of semiconductors ...

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Modeling of Soft-Switching Losses of IGBTs in High-Power High-Efficiency Dual-Active-Bridge DC/DC Converters DOI: IEEE Transactions on Electron Devices, Vol. 60, No. 2, pp. 587-597, February 2013: Citation, M. Schweizer, J. W. Kolar: Design and Implementation of a Highly Efficient Three-Level T-Type Converter for Low-Voltage Applications DOI: IEEE Transactions on Power Electronics, Vol. 28, No ...

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This tool considers the capital cost of wind turbines and cabling, wind farm power production, and power losses in the cabling over the lifetime of the wind farm. The proposed co-optimization problem is solved using genetic algorithm. The decision variables are the wind farm layout, cable paths and sizes, and the location of the point of common coupling within the land perimeter. A case study ...

Dr. Mohamed Shawky El Moursi, - Deputy Director of Advanced Power and ...
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aspects of solar power project development, particularly for smaller developers, will help ensure that new PV projects are well-designed, well-executed, and built to last. Enhancing access to power is a key priority for the International Finance Corporation (IFC), and solar power is an area where we have significant expertise. IFC has invested ...

Utility-Scale Solar Photovoltaic Power Plants - IFC
Dezhi Chen, Kun Ding, in Large-Scale Wind Power Grid Integration, 2016. 4.2.2.2 Control of the rotor field current. The DFIG can change the speed of the generator rotor by means of controlling the frequency of the rotor field current. When a fault occurs on the grid side and the rotor is accelerated, it can keep the speed of the rotor rotating magnetic field at the synchronous speed via ...

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Computation and Analysis of Dielectric Losses in MV Power Electronic Converter Insulation DOI: Proceedings of the IEEE Energy Conversion Congress & Expo (ECCE USA 2016), Milwaukee, WI, USA, September 18-22, 2016 : ECCE USA 2016Citation, J. E. Huber, D. Rothmund, L. Wang, J. W. Kolar: Full-ZVS Modulation for All-SiC ISOP-Type Isolated Front End (IFE) Solid-State Transformer DOI: Proceedings of ...

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Therefore, the power consumption and the heat losses can be significantly reduced. A practical implementation of this method is in DVD spindle devices using FPGAs. Only terminal voltages of three phases are sampled and fed into the FPGA controller to calculate the commutation instants, and an external resistor and an eight-bit A/D converter are used to give the reference of duty ratio [48].

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