



Advanced Fault Ride-Through Control of DFIG based Wind Turbines including Grid Connection via VSC-HVDC

By Christian Feltes

Shaker Verlag Mai 2012, 2012. Buch. Book Condition: Neu. 211x149x15 mm. Neuware - In the recent years there has been an extensive growth in the renewable energy sector all over the world. In this regard the wind energy seems to be one of the most promising renewable resources, since it combines relatively high efficiency with moderate costs. With the growing renewable energy share in the power generation mix it becomes inevitable that also these new generation technologies participate on the provision of grid services to guarantee stable operation of the grid, especially when one considers the decreasing number of conventional power plants in operation as a result of the expansion of wind based generation plants. These so-called ancillary services include frequency / active power control, voltage / reactive power control and fault ride-through (FRT) with fast voltage control and are stipulated in modern grid codes. In the context of this thesis advanced control algorithms have been developed for wind turbines based on doubly-fed induction generator (DFIG) to allow safe FRT during symmetrical and unsymmetrical faults. This covers the control for conventional AC grid connection as well as for the connection through voltage source converter (VSC) based high voltage direct current...

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