



AK Tech Training and Placements

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Design and Modelling of a CSC Converter with a variable DC link voltage to drive a Brushless DC Motor Drive

In this project, the design, modeling, and analysis of canonical switching cell converter (CSCC) fed brushless DC motor is proposed. CSCC converter is one of the advanced converter topology offering a variable DC link voltage enabling it to suit a multitude of applications. The modeled converter is employed to drive a BLDC motor and analyzed for different load conditions (Torque) and different DC link voltages to ensure the adaptability of the converter topology to suit a multitude of applications and conclusions has been drawn based on the analysis. The proposed topology is simulated in MATLAB/SIMULINK.

Domain: Electrical Drives / DC Drives

Technology: Electrical