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VARIABLE DRIVE SPEED CONTROL BY USING SPECIAL SWITCHING CONTROL STRATEGY OF SVPWM BY MATLAB/SIMULINK

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Abstract:

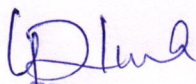
Permanent magnet synchronous motor is considered as variable speed motor due to its static and dynamic characteristics. These characteristics include high efficiency, light weight, low losses, small inertia, maintenance free and controlling of motor is also easy. In this paper includes the description of technique in which space vector pulse width modulated inverter (SVPWM) is used for the speed control of PMSM motor. Advantages of this technique are to achieve fast dynamic response with low speed ripple also depending on motor parameters is low and high torque response. In this paper mathematical modelling of PMSM motor is done by using vector control technique in which output of motor is obtain by SVPWM technique. Simulation results are carried out for reference speed and torque signals given by some user define system. Simulation model is developed in MATLAB/SIMULINK to study various parameters.

Keywords: MATLAB, PMSM, SVPWM, Mathematical modelling, vector control, space vector

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