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Simulation of Induction Motor Drives

In this simulation, the induction motor drive is a 3-phase induction motor drive system. The simulation uses a 3-phase induction motor and a 3-phase inverter. The simulation controls the inverter to apply the desired voltage and frequency to the motor. The simulation is used to study the behavior of the induction motor under different operating conditions. The simulation can be used to study the start-up, steady-state, and transient behaviors of the induction motor. The simulation can also be used to study the effects of different control strategies on the performance of the induction motor.

Vector Control of Induction Motor Drives

Vector control of induction motor drives is a method for controlling the speed and torque of an induction motor. It is based on the principle of field orientation, where the magnetic field of the motor is oriented to follow the desired trajectory. The vector control method uses a mathematical model of the motor to predict the behavior of the motor under different operating conditions. The control system then adjusts the motor's input voltage and current to achieve the desired performance.

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of this research will enable efficient utilization of the HEV powertrain. An advanced electric drive controller for a high power starter-generator subsystem based on a permanent magnet brushless DC (PM BLDC) machine is presented. The PM BLDC machine is belt-coupled to a diesel engine in a series-parallel 2 x 2 HEV. The PM BLDC electric drive is developed for engine starting, generating and motoring. Computer simulations are performed for tuning the controller parameters, and for selecting proper inverter rating of the engine-generator drive. The drive controller is implemented in hardware using Texas Instruments Fixed point TMS320F2812 digital signal processor (DSP) and a high-resolution current-sensing board to achieve the best torque regulation at various load conditions. For the propulsion motor drive, an induction motor drive by a three-phase PWM inverter has been considered. The induction motor drive cannot deliver high static and dynamic performance without the correct parameter tuning in the controller. Computer simulations showed the parameter variations effects on the performance of an induction motor drive used in an HEV. A novel sliding mode observer based induction motor controller with an on-line parameter adaptation algorithm is then presented. Software-in-the-loop (SIL) and hardware-in-the-loop (HIL) simulations have been performed for a high power induction motor with an electric vehicle load to verify the performance of the new sliding mode observer based parameter adaptation algorithm as well as tune the control parameters. For the HIL simulation, the controller was implemented in an FPGA-based control hardware, and a virtual motor model was implemented in software. The novel on-line parameter adaptation algorithm has been tested experimentally on a small induction motor for a proof of concept demonstration. The developed algorithm provides fast convergence of parameters, rapid response...