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PERMANENT MAGNET AC MOTOR DRIVE SYSTEM: Analysis, Design and Application

Lei hao

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PERMANENT MAGNET AC MOTOR DRIVE SYSTEM: Analysis, Design and Application Lei hao This book focuses on the analysis and application of permanent magnet (PM) AC motors (including PM synchronous motor (PMSM) and brushless DC (BLDC) motor) drive system.The first topic of the book is to analyze the PMSM using finite element analysis (FEA). Flux-weakening capability is evaluated to prevent the emagnetization of the permanent magnet rotor. The second topic is to develop an adaptive full-speed range control system of the PMSM motor using very low cost hybrid sensor technology. Full-load starting and over the rated-speed operations are given more consideration. Third, a novel full-speed range control system for the brushless DC motor is developed. Unlike the conventional BLDC current control, which have poor performance during the flux weakening operation, the new method can achieve the same controllability as in the sinusoidal PM motor over the flux weakening range. Finally the detail implementation of developed technology to industrial application is illustrated. This book can be a good reference to people who is interest in PM machine drive system.

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