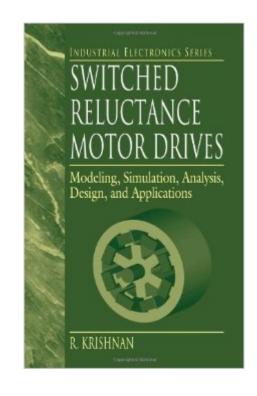
The book was found

Switched Reluctance Motor Drives: Modeling, Simulation, Analysis, Design, And Applications (Industrial Electronics)





Synopsis

The switched reluctance machine (SRM) is the least expensive electrical machine to produce, yet one of the most reliable. As such, research has blossomed during the last decade, and the SRM and variable drive systems using SRMs are receiving considerable attention from industry. Because they require a power electronic converter and controller to function, however, successful realization of an SRM variable drive system demands an understanding of the converter and controller subsystems and their integration with the machine. Switched Reluctance Motor Drives provides that understanding. It presents a unified view of the machine and its drive system from all of its system and subsystem aspects. With a careful balance of theory and implementation, the author develops the analysis and design of SRMs from first principles, introduces a wide variety of power converters available for driving the SRM, and systematically presents both low- and high-performance controllers. The book includes an in-depth study of acoustic noise and its minimization along with application examples that include comparisons between ac and dc drives and SRM drive. The result is the first book that provides a state-of-the-art knowledge of SRMs, power converters, and their use with both sensor-based and sensorless controllers. Switched Reluctance Motor Drives enables both students and engineers to learn all aspects of SRM drive systems and appreciate the interdependence of the various subsystems in performance optimization.

Book Information

Series: Industrial Electronics Hardcover: 432 pages Publisher: CRC Press; 1 edition (June 28, 2001) Language: English ISBN-10: 0849308380 ISBN-13: 978-0849308383 Product Dimensions: 6.4 x 1.1 x 9.6 inches Shipping Weight: 1.6 pounds (View shipping rates and policies) Average Customer Review: 4.0 out of 5 stars Â See all reviews (1 customer review) Best Sellers Rank: #1,636,311 in Books (See Top 100 in Books) #223 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Power Systems #280 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electric Machinery & Motors #875 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design

Customer Reviews

It's a great book on the subject. Design steps are systematically described. Could be better, If test conducted on these motors are also included in the book.

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