



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

By R. Krishnan

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## Switched Reluctance Motor Drives: Modeling, Simulation, Analysis, Design, and Applications (Industrial Electronics) By R. Krishnan

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.

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### **Editorial Review**

#### **About the Author**

R. Krishnan (PhD, Virginia Tech) is Research Professor of Marketing at the University of Miami. He has previously taught at Cal Poly, San Luis Obispo, Baruch College, CUNY, New York, and Virginia Tech. Dr. Krishnan's research has appeared in a number of scholarly and professional journals, including the "Journal of Marketing, Journal of Retailing, Sloan Management Review," and "Journal of Interactive Marketing." He has also received many distinguished teaching awards, including the University of Miami-EMBA Excellence in Teaching Award, College of Business Teaching Award, and Alumni Award for Best Teaching. A specialist in business strategy marketing for technology-based companies, e-commerce, new product and brand strategies, and pricing strategies, he also conducts marketing education programs for companies around the globe.

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