Special Issue

New Advances in Synchronous Reluctance Motors

Message from the Guest Editor

Synchronous Reluctance Motors (SynRMs) have gained significant attention in recent years due to their high efficiency, cost-effectiveness, and reduced dependency on rare-earth materials. Advances in rotor design, material optimization, and control algorithms have further enhanced their performance, making them ideal for industrial, automotive, and energy applications. Furthermore, SynRMs exhibit inherent robustness and require minimal maintenance, contributing to their overall reliability and long service life. To ensure optimal performance and longevity of SynRMs, regular maintenance practices are essential. This paper explores the latest developments in SynRM technology, focusing on innovative design approaches and emerging trends that promise to reshape the future of electric motor applications.

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