Special Issue

Optimization and Simulation of Permanent Magnet Motors

Message from the Guest Editors

Electric machines are the main workhorses of our modern world. Among them, permanent magnet (PM) machines have reserved a special place for applications where high efficiency combined with high torque density and reduced size and weight are important. High-performance applications often require the electric machine to fulfill several conflicting requirements, thus pushing its design electromagnetically, thermally, and mechanically to the edge of feasibility. In such cases, machine designers face a serious challenge and need to resort to reliable multiphysical models combined with mathematical optimization as an automated decision-making tool. This Special Issue focuses on simulation and optimization of permanent magnet machines used as a design tool.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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