

Structural Optimization and Thermal modeling of Flux Switching Machine



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(Mrs. Alia Borer)

STRUCTURAL OPTIMIZATION AND THERMAL MODELING OF FLUX SWITCHING MACHINE

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LAP Lambert Academic Publishing Apr 2015, 2015. Taschenbuch. Condition: Neu. Neuware - The point of this study was to model a lumped parameter thermal network for flux switching machine. The model could be utilized to outline new cooling systems and as a developer for this sort of machines. The elemental model can then be utilized to carry out simulations regarding cyclic loading as well as transient activities. The thermal model examined here is partitioned into different sectors, thereby empowering analysis of this machine. The model under investigation has been acknowledged by utilizing a COMSOL Multi-physics simulator and Matlab[®] programming software. The heat exchange coefficients are characterized from information gathered from the comparative kind of machines. The developed framework also considers sensitivity analysis in terms of parametric effects on the behavior of the machine thermally. The developed model needs no substantial computing and can simply be run on a personal computer. The model can later be modified and connected to diverse machines. Structural topology optimization approach is adopted to find the optimal geometry. The design goal is to minimize the total dissipated losses to improve the overall efficiency and the optimal design. 80 pp. Englisch.



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