Model Building and Simulation of Thermoelectric Module Using MATLAB/SIMULINK

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Abstract

This paper presents the model implementations and verification of both thermoelectric cooler (TEC) and thermoelectric generator (TEG) modules using Matlab/Simulink. The proposed models are designed with a user-friendly icon and a dialog box like Simulink block libraries. These make the models of thermoelectric module (TEM) easily simulated, analyzed, and optimized for further applications.

Keyword：Thermoelectric Module ,MATLAB,SIMULINK