Study of The Effect of pressure on PEM Fuel Cells, Operated with Variable Loads

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Abstract

The Production of electric energy from fuel cells is particularly promising. It is characterized by high efficiency (about 40-60%), high reliability and without environment pollution. In this paper, detailed investigation has been done related to the optimum performance of fuel cells system - type proton exchange membrane (PEM), by governing gases pressure of injection fuel. This process, verified by simulation method Matlab/simulink, confirms the effect of pressure control on the fuel cells performance and efficiency.

1 For the paper in Arabic see pages (213-224).
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