



Unitized Regenerative Fuel Cell System Gas DryerHumidifier Analytical Model Development

By Kenneth A. Burke

Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. A lightweight Unitized Regenerative Fuel Cell (URFC) Energy Storage System concept is being developed at the NASA Glenn Research Center (GRC). This Unitized Regenerative Fuel Cell System (URFCS) is unique in that it uses Regenerative Gas DryersHumidifiers (RGDH) that are mounted on the surface of the gas storage tanks that act as the radiators for thermal control of the Unitized Regenerative Fuel Cell System (URFCS). As the gas storage tanks cool down during URFCS charging the RGDH dry the hydrogen and oxygen gases produced by electrolysis. As the gas storage tanks heat up during URFCS discharging, the RGDH humidify the hydrogen and oxygen gases used by the fuel cell. An analytical model was developed to simulate the URFCS RGDH. The model is in the form of a Microsoft (registered trademark of Microsoft Corporation) Excel worksheet that allows the investigation of the RGDH performance. Finite Element Analysis (FEA) modeling of the RGDH and the gas storage tank wall was also done to analyze spatial temperature distribution within the RGDH and the localized tank wall. Test results obtained from the testing of the...



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