



## 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...



**READ ONLINE**  
[ 6.61 MB ]

### Reviews

*Absolutely among the finest pdf I have got possibly read. I am quite late in start reading this one, but better then never. It is extremely difficult to leave it before concluding, once you begin to read the book.*

-- **Prof. Lois Cormier II**

*Great eBook and beneficial one. It is packed with wisdom and knowledge You wont really feel monotony at at any time of your respective time (that's what catalogs are for relating to if you check with me).*

-- **Maiya Kozey**

## Relevant Kindle Books



### **Perfect Psychometric Test Results**

Cornerstone. Paperback. Book Condition: new. BRAND NEW, Perfect Psychometric Test Results, Joanna Moutafi, Ian Newcombe, Perfect Psychometric Test Results is an invaluable guide for anyone who wants to secure their ideal job. Written by a team from Kenexa, one of the UK's...



### **Perfect Numerical Test Results**

Cornerstone. Paperback. Book Condition: new. BRAND NEW, Perfect Numerical Test Results, Joanna Moutafi, Ian Newcombe, Perfect Numerical Test Results is the essential guide for anyone who wants to secure their ideal job. Written by a team from Kenexa, one of the UK's...



### **Perfect Numerical and Logical Test Results**

Cornerstone. Paperback. Book Condition: new. BRAND NEW, Perfect Numerical and Logical Test Results, Joanna Moutafi, Marianna Moutafi, Have you been asked to sit a numerical or logical reasoning test? -Do you need some help preparing for the questions you'll be asked? -Do...



### **Available Titles Skills Assessment Manager SAM Office 2007 Microsoft Office Excel 2007 by Elizabeth Eisner Reding and Lynn Wermers 2007 Spiral**

Book Condition: Brand New. Book Condition: Brand New.



### **Available Titles Skills Assessment Manager SAM Office 2007 Microsoft Office Excel 2007 by Elizabeth Eisner Reding and Lynn Wermers 2007 Paperback**

Book Condition: Brand New. Book Condition: Brand New.



### **Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...