

On the Efficiency of Automotive H₂/O₂ PE Fuel Cell Systems

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Abstract

Efficiency is the key argument for the application of polymer electrolyte fuel cells in automotive applications. Efficiency of the fuel cell system depends on a number of interdependent parameters. These are on the one hand the properties of the electrochemical components as well as the chosen operating conditions. On the other hand efficiency of the complete system also strongly depends on the characteristics of the balance of plant components (BoP).

The use of pure oxygen reduces the ORR over-voltage, as the oxygen partial pressure can easily be increased from typically 0.4 bar by an order of magnitude. Membrane conductivity is easier maximized with the reduced volume flow at the cathode and higher possible gas pressures. The use of pure oxygen also eliminates the need for an air compressor, the main parasitic power consumer in the BoP.

In conventional automotive systems, typically 15 – 20% of the stack power is lost for the operation of the BoP, the main power consumer being the air compressor. Typical tank to electric power efficiencies are in the order of 45%. The use of pure oxygen as the oxidant increases on the one hand the cell efficiency at the same current density and requires greatly reduced BoP parasitic power. At similar operation points, therefore the tank to electric power efficiency increases by about 20%.

Introduction

It seems probable, that future production of hydrogen will go through routes of water splitting either by electrolysis or thermochemical pathways. Pure oxygen will be a byproduct of those hydrogen generation processes. This opens up the possibility to use pure oxygen instead of air for the conversion of hydrogen to electricity in fuel cells. This paper investigates the use of pure oxygen on the overall fuel cell system efficiency for the automotive application as compared to air, including the energetic cost for the production of oxygen.

Solution Manual For Fuel Cell

Minjie Lin



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Direct and General Support Maintenance Manual, 1977 **Clean Energy: Hydrogen/fuel Cells Laboratory Manual** K S V Santhanam, Gerald A Takacs, Massoud J Miri, Alla V Bailey, Thomas D Allston, Roman J Press, 2016-01-15 This manual is designed for the use of hydrogen as a fuel in the fuel cells The turn of the century has seen a realization of moving towards clean energy due to a variety of considerations ranging from global warming anxiety to living in a healthy atmosphere depletion of fossil fuels oil slick in Gulf of Mexico resulting in disasters and so forth Innumerable debates in the literature has led to the identification of hydrogen as the safest and efficient fuel over the other available fuels This fuel can be used in two ways a direct combustion like gasoline and b fuel cells The use of it by the first method requires pure oxygen to be used for combustion it is an expensive method involving oxygen storage and transportation If oxygen is substituted by air in the combustion it produces nitrogen oxides that are defying the definition of clean energy The other method is to use it as a fuel cell for easy emission free transportation Here chemical energy is converted to electrical energy directly in a fuel cell To illustrate principles of related fuel cells methanol and borohydride fuel cells are included in this manual The nine experiments described here are designed for illustrating the concepts for the beginners and those motivated to go for clean energy DVD displays the actual experimental set up and measurement procedures for Hydrogen safety Fuel value measurement Gaseous properties of hydrogen Proton exchange membrane fuel cell assembly and Dissolved methanol fuel cell , *Engine and Transmission Oils, Fuels, and Additives for Army Aircraft*, 1992 *The Electric Vehicle Conversion Handbook HP1568* Mark Warner, 2011-06-07 A guide on how to convert any gas or diesel powered vehicle to electric power Includes ownership advantages basic EV operation subsystems components basic EV operation project vehicles and conversion kits **Fossil Energy Update**, 1978 **Department of Defense Authorization for Appropriations for Fiscal Year 1982** United States. Congress. Senate. Committee on Armed Services, 1981 **Handbook of Fuel Cell Technology** Carl Berger, 1968 Approach, 1959 The naval aviation safety review LASTING SOLUTION TO OIL-AND-FOOD CRISES STEVE Dr. ESOMBA, 2012-05-29 Since the mid 1980s or even earlier the global economy has continuously been plagued by one energy and food crisis or another The ups and downs of the energy industry and market buoy and bubble along with food commodity prices Every slight movement backwards or forward of crude features impacts food commodity prices on which the poor as well as the rich depend on for survival This umbilical link between oil prices and food prices tortures our swelling populations especially those in poor underdeveloped countries LASTING SOLUTIONS TO OIL AND FOOD PRICES is a bold attempt to address permanent solutions to this appalling situation More ideas are needed and much more bolder action tWe must tackle these perpetual oil and food problems Our populations keep increasing Many teeming mouths to feed Your contribution is welcome Thanks **About Sustaining Supply Technology for Manned Spacecraft** Christian Zschoch, 2020-02-19 At the present time space travel is characterized by separately developed

technologies of the space traveling nations Depending on fixed financial budgets and expensive technology companies the developed spaceships are strongly designed just for a specific mission profile in order to reduce costs and risks as far as possible Because of their less sustainable supply concept these spacecraft allow only a limited mission duration and require regular supply deliveries in addition On the other hand side mission periods continue to lengthen with the planned exploration of Mars asteroids or other objects that are even more distant These missions will require high sustainable supply concepts in order to enable autonomous and long term life support of human mission participants The now existing solutions do not yet meet these requirements so the current approach of spacecraft design had to undergo a conceptual review The research made in the context of this work led to the design of a new generation of spacecraft which supports with its optimized hull construction such extended long term missions in terms of durability variability and life support All its embedded biological and chemical processes have on the one hand the primary aim to enable humans a long stay in space and on the other hand to be independent of an external mission supply The performed research activities also included the necessary mechanical and energetical functions for which an extreme lifetime extension of up to 60 years was aimed Fuel Cell Science, Engineering and Technology R. K. Shah, Satish G. Kandlikar, 2004 **Tulsian's Management Accounting : A Self-Study Textbook** CA & Dr. P C Tulsian, Tushar Tulsian & CA Bharat Tulsian, This book has been primarily designed to meet the needs of B Com students under the recommended National Education Policy 2020 NEP 2020 for the subject Management Accounting It serves as a self study text and provides essential guidance for understanding of an Introduction to Management Accounting Marginal Costing Budgeting and Budgetary Control Standard Costing Responsibility Accounting and Transfer Pricing The book has been written in simple and lucid manner covering all the important equations formulae and practical steps in a systematic manner to aid students learning Based on the author s proven approach teach yourself style the book is replete with numerous illustrations exhibits and solved problems Spacecraft Technology Mark Williamson, 2006-02-23 This book covers the development of space technology in the late 1950s and 1960s from the launch of Sputnik 1 in October 1957 to the landing of men on the moon in 1969 The text begins by looking at the challenge of getting into space and the development of the launch of the space launch vehicle and moves on to discussion of unmanned satellites and spaceprobes and the first capsules deployed in Earth orbit and the Apollo missions to the moon **Advanced Microfluidics Based Point-of-Care Diagnostics** Raju Khan, Chetna Dhand, Sunil Kumar Sanghi, D. Shabi Thankaraj Salammal, Ashtbhuja Prasad Mishra, 2022-03-10 This book provides a well focused and comprehensive overview of novel technologies involved in advanced microfluidics based diagnosis via various types of prognostic and diagnostic biomarkers This authors examine microfluidics based diagnosis in the biomedical field as an upcoming field with extensive applications It provides a unique approach and comprehensive technology overview for diagnosis management towards early stages of various bioanalytes via cancer diagnostics diabetes alzheimer disease toxicity in food products brain and retinal diseases

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Bittner,Hovig V. Chitilian,Ryan J. Horvath,Wilton C. Levine,Jamie L. Sparling,2025-09-09 Written by MGH Department of Anesthesia residents and attendings and under the senior editorial leadership of Dr Keith H Baker Clinical Anesthesia Procedures of the Massachusetts General Hospital Eleventh Edition emphasizes the clinical fundamentals necessary for the safe delivery of anesthesia and perioperative care in everyday practice Organized into three convenient sections Evaluating the Patient Before Anesthesia Administration of Anesthesia and Perioperative Issues it presents information in concise outline format for quick reference Portable and practical this handbook is an ideal resource for practicing anesthesiologists and residents as well as nurse anesthetist trainees and practitioners **Energy** ,1968 **A Selected Listing of NASA Scientific and Technical Reports for 1966** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division,1967

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