

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.

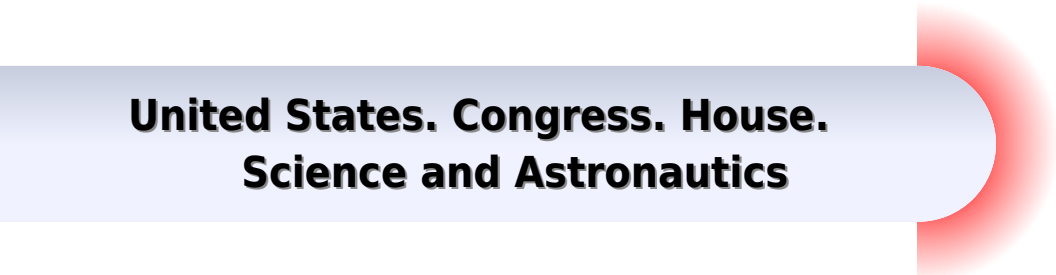
In conventional automotive systems, typically 15 – 20% of the stack power is lost for the operation of the BoP, the main power consumer being the air compressor. Typical tank to electric power efficiencies are in the order of 45%. The use of pure oxygen as the oxidant increases on the one hand the cell 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 Engines

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Engine and Transmission Oils, Fuels, and Additives for Army Aircraft, 1992 Solutions Manual for Principles of Physical Chemistry, 3rd Edition, Solutions Manual Hans Kuhn, David H. Waldeck, Horst-Dieter Försterling, 2024-10-25 This is a Solutions Manual to Accompany with solutions to the exercises in the main volume of Principles of Physical Chemistry Third Edition This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry which are the foundational principles of Chemistry The book introduces the student to the principles underlying the essential sub fields of quantum mechanics atomic and molecular structure atomic and molecular spectroscopy statistical thermodynamics classical thermodynamics solutions and equilibria electrochemistry kinetics and reaction dynamics macromolecules and organized molecular assemblies Importantly the book develops and applies these principles to supramolecular assemblies and supramolecular machines with many examples from biology and nanoscience In this way the book helps the student to see the frontier of modern physical chemistry developments The book begins with a discussion of wave particle duality and proceeds systematically to more complex chemical systems in order to relate the story of physical chemistry in an intellectually coherent manner The topics are organized to correspond with those typically given in each of a two course semester sequence The first 13 chapters present quantum mechanics and spectroscopy to describe and predict the structure of matter atoms molecules and solids Chapters 14 to 29 present statistical thermodynamics and kinetics and applies their principles to understanding equilibria chemical transformations macromolecular properties and supramolecular machines Each chapter of the book begins with a simplified view of a topic and evolves to more rigorous description in order to provide the student and instructor flexibility to choose the level of rigor and detail that suits them best The textbook treats important new directions in physical chemistry research including chapters on macromolecules principles of interfaces and films for organizing matter and supramolecular machines as well as including discussions of modern nanoscience spectroscopy and reaction dynamics throughout the text **Direct and General Support Maintenance Manual**, 1977 **The Hydrogen Energy Economy** United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Energy and Air Quality, 2003 **Airships** Iver P. Cooper, 2025-05-15 Many people may know about the blazing crash of the Hindenburg in 1937 but are possibly unaware that it had made 62 flights before its final journey including one transporting author Leslie Charteris creator of The Saint The disaster however did not end the airship era blimps escorted convoys during World War II and were a part of air defense systems in the 1950s and 1960s Airships still fly today and new models are in the construction phase This book examines this branch of aviation history delving into the science and engineering of airships and their design flaws weather difficulties and operational errors The chapters focus on function lift propulsion materials ground handling and so forth The book concludes with speculations about future airship designs and missions **The Electric Vehicle Conversion Handbook HP1568** Mark

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included the necessary mechanical and energetical functions for which an extreme lifetime extension of up to 60 years was aimed **Energy Fact Book, 1976** Tetra Tech, Inc,1976 **Fossil Energy Update** ,1981 Energy Research Abstracts ,1987 *Scientific and Technical Aerospace Reports* ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Space Flight Emergencies and Space Flight Safety-a Survey, Staff Study for the Subcommittee on NASA Oversight of the ... Serial E.* 1967 United States. Congress. House. Science and Astronautics,1967 **Fuel Cell Science, Engineering and Technology** R. K. Shah,Satish G. Kandlikar,2004 A Selected Listing of NASA Scientific and Technical Reports for ... United States. National Aeronautics and Space Administration. Scientific and Technical Information Division,1964

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