

A New Hydrogen Purification Process

COMMERCIAL DEVELOPMENT OF PALLADIUM ALLOY DIFFUSION CELLS

By J. B. Hunter, Ph.D.

J. Bishop and Co Platinum Works, Malvern, Pennsylvania

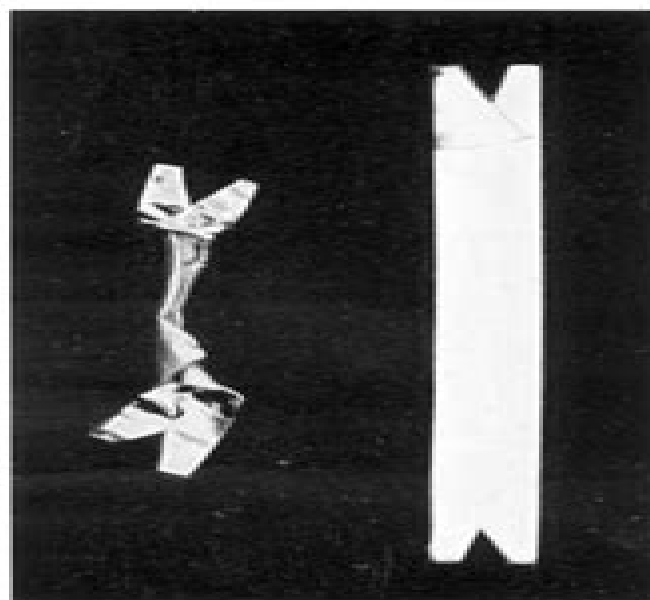
The discovery of a palladium alloy having remarkable stability as well as a hydrogen transfer rate more than twice that of pure palladium underlies the development of a new industrial process for the separation or purification of hydrogen.

The selective diffusion of hydrogen through a palladium membrane has been well known since it was first demonstrated by Thomas Graham in 1866; equally well known has been the dimensional change that occurs when palladium is alternately heated and cooled in hydrogen. This deformation, which is generally understood to be the result of an α - β phase change in the metal as the hydrogen is occluded and released, has severely limited the development of diffusion equipment for the commercial separation and purification of hydrogen.

Effect of Alloying Additions on Palladium

It had also been generally believed that the alloying of another metal with palladium would serve only to reduce its ability to transfer hydrogen, and investigations with additions of copper, gold, nickel, iron, platinum and ruthenium have in fact proved this to be the case. If, however, silver is alloyed with palladium some unexpected results are obtained. Some compositions show a reduced permeability, others give essentially the same permeability as the parent metal, but in a very narrow critical range the rate of hydrogen transfer is found to increase remarkably.

With the alloy finally established as the most effective, the hydrogen permeability at 500°C is about 25 per cent greater than for palladium, while at 300°C the difference in performance has increased to some 150 per cent. Although this remarkable increase in permeability of



Specimens of pure palladium (left) and of the silver-palladium alloy (right), initially the same size, after thirty cycles of heating and cooling in hydrogen

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Metalorganic Chemical Vapor Deposition for the Heterostructure Hot Electron Diode Mark Andrew Emanuel, 1989 Very Good No Highlights or Markup all pages are intact

Developments in Surface Contamination and Cleaning:

Applications of Cleaning Techniques Rajiv Kohli, K.L. Mittal, 2018-11-27 Developments in Surface Contamination and Cleaning Applications of Cleaning Techniques Volume Eleven part of the Developments in Surface Contamination and Cleaning series provides a guide to recent advances in the application of cleaning techniques for the removal of surface contamination in various industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography The material in this new edition compiles cleaning applications into one easy reference that has been fully updated to incorporate new applications and techniques Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning Presents the latest reviewed technical information on precision cleaning applications as written by established experts in the field Provides a single source on the applications of innovative precision cleaning techniques for a wide variety of industries Serves as a guide to the selection of precision cleaning techniques for specific applications

Hydrogen Effects in Catalysis Paal, 1987-11-06 This book covers hydrogen effects in catalysis in the broadest sense from surface science to industrial applications It draws the attention of the catalysis community to the importance of the phenomena of hydrogen effects both in the science and technology of catalysis

Food Industries Manual ,1931 Process Engineering ,1986 Solid State Technology ,1985

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Semiconductor International ,1991 **Processing** ,1985 Official Gazette of the United States Patent and Trademark Office ,1984

Hydrogen Production and Energy Transition Marcel Van de Voorde, 2021-09-07 Carbon neutral hydrogen technologies play a key role in preventing climate change Maximizing production of hydrogen in a clean and efficient manner is critical to the hydrogen economy This book describes most of the potential hydrogen processing technologies and presents the state of the art and future developments of modern hydrogen technologies Attention has been given to the theoretical aspects thermodynamics process calculations and modeling approaches new technologies and reports of multiple successful new pilot systems The book should appeal to a broad readership and ideal for students of materials

science chemistry physics for researchers chemical and mechanical engineering for industrialists policymakers economics safety agencies and governments

Hydrogen Fuels United States. Energy Research and Development Administration. Technical Information Center,1976

Beyond Oil and Gas George A. Olah,Alain Goeppert,G. K. Surya Prakash,2006-08-21

In this masterpiece the renowned chemistry Nobel Laureate George A Olah and his colleagues discuss in a clear and readily accessible manner the use of methanol as a viable alternative to our diminishing fossil fuel resources They look at the pros and cons of our current main energy sources namely oil and natural gas and varied renewable energies and new ways to overcome obstacles Following an introduction Olah Goeppert and Prakash look at the interrelation of fuels and energy and at the extent of our non renewable fossil fuel resources Despite the diminishing reserve and global warming the authors point out the continuing need for hydrocarbons and their products They also discuss the envisioned hydrogen economy and its significant shortcomings The main section then focuses on the methanol economy including the conversion carbon dioxide from industrial exhausts such as flue gases from fossil fuel burning power plants and carbon dioxide contained in the atmosphere into convenient liquid methanol for fuel uses notably in fuel cells and as a raw material for hydrocarbons The book is rounded off with a glimpse into the future A forward looking and inspiring work regarding the major challenges of future energy and environmental problems

Food Processing ,1985 Advances in Refining Catalysis Deniz Uner,2017-03-16

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Thomas Register of American Manufacturers ,2003 Vols for 1970 71 includes manufacturers catalogs

World Fuel Cells - An Industry Profile with Market Prospects to 2010 G. Weaver,2002-12-13 The first edition of World Fuel Cells Market Prospects to 2010 examines the development of the fuel cell business to 2010 The report analyses the trends in markets technologies and industry structure and profiles all the major players World Fuel Cells Market Prospects to 2010 includes a fuel cell industry overview market figures and forecasts to 2010 with analysis a review of fuel cell technology company profiles of key fuel cell developers and a directory of manufacturers The market report is designed to assist with business plans R D and manufacturing strategies It will be an indispensable aid for managers responsible for business development technology assessment and market research For a PDF version of the report please call Sarah Proom on 44 0 1865 843181 for price details

Platinum Metals Review ,1967 *The Chemical Engineer* ,2004

Technical Proceedings of the 2007 Cleantech Conference and Trade Show NanoScience & Technology Inst,2019-08-22 The Cleantech conference which runs parallel with NSTI s Nanotech is designed to promote advancements in traditional technologies emerging technologies and clean business practices covering important

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