INTRODUCTION

The Hydrogen Bibliography is a compilation of research reports that are the result of research funded over the last fifteen years. In addition, other documents have been added. All cited reports are contained in the National Renewable Energy Laboratory (NREL) Hydrogen Program Library.

It is our intent to make these copies available upon request to the extent that program funding allows.

Inquiries should be made to:

Hydrogen Program  
Materials Science and Engineering Division  
National Renewable Energy Office  
1617 Cole Boulevard  
Golden, CO  80401  

FAX (303) 231-1381
HYDROGEN BIBLIOGRAPHY

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26. Wind Production ................................................................. 155
1. 100. Argonne National Laboratory, Subcontractor (DOE). Municipal Waste/An Energy Source; Unknown. 2 pages. Note: 2 copies; Prepared by Argonne National Laboratory for DOE. Alternative Fuels - General.


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Alternative Fuels - General

Note: Prepared under DOE Contract No. DE-AC02-83CH10093. Alternative Fuels - General/Economics/Market Segments.

Note: Prepared under DOE Contract No. DE-AC02-83CH10093. Market Segments/Alternative Fuels - General/Economics.


HYDROGEN BIBLIOGRAPHY

   Alternative Fuels - General.

   Alternative Fuels - General.

   Note: 4 copies.
   Alternative Fuels - General/Electrolysis/Hydrogen Storage/Transportation.

   Note: 2 copies.
   Alternative Fuels - General/Photoconversion/Hydrogen Storage/Electrolysis/Hydrogen Storage.

   Note: 2 copies.
   Alternative Fuels - General/Photoconversion/Hydrogen Storage/Market Segments.

   Note: 2 copies.
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42. 374. Jansen, Norman B., Editor (Laboratory of Renewable Resources Engineering, Purdue University); Jansen, Norman B. Workshop on Research Needs in Renewable Materials Engineering; October 18-20, 1983; West Lafayette, Indiana. Purdue University; May 15, 1984. 49 pages. Note: Prepared for the National Science Foundation, Grant # CPE-8213483. Alternative Fuels - General.

Alternative Fuels - General

Note: Prepared under SERI Subcontract No. HH-9-18108-1, DOE Contract No. DE-AC02-83CH10093.

Alternative Fuels - General

Note: Prepared for DOE by Meridian Corporation, Alexandria, Virginia.

Environment/Alternative Fuels - General


Environment/Alternative Fuels - General/Biotechnology

Note: Lab operated by Martin Marietta under DOE Contract No. DE-AC05-84OR21400.

Alternative Fuels - General


Alternative Fuels - General/Hydrogen Production

Note: 3 copies.

Biofuels/Alternative Fuels - General/Methanol
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Alternative Fuels - General

   Note: Prepared under DOE Contract No. DE-AC02-83CH10093.

   Note: 3 copies, Prepared for DOE.

52. 312. SERI. Science & Technology In Review; Summer 1990; Vol. XII, No. 3.
   Alternative Fuels - General/Biofuels/Photovoltaics.

   Note: 2 copies.
   Solar Production/Photoconversion/Alternative Fuels - General.

   Alternative Fuels - General/Biofuels/Methanol/Natural Gas/Transportation/Environment/Government/Legislation/Economics.

   Alternative Fuels - General/Market Segments.

   Alternative Fuels - General.
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Note: Final report by the Hawaii Natural Energy Institute and the Florida Solar Energy Center.
Alternative Fuels - General/Summary.

Note: Prepared under SERI Subcontract No. XL-9-18201-1.
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Alternative Fuels - General/Electrolysis.

Alternative Fuels - General/Conservation.

Alternative Fuels - General.

Note: Special issue with 11 articles dedicated to energy.
Alternative Fuels - General/Solar Production/Economics.

Alternative Fuels - General/Wind Production/Biofuels.

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   Alternative Fuels - General.

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   Note: 9 copies; Prepared under DOE Contract No. DE-AC02-83CH10093. Alternative Fuels - General/Biofuels/Methanol/Economics.


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   Note: 2 copies.
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    Note: Prepared by DOE with funding from SERI, IEA and Energy, Mines and Resources Canada.
    Biofuels.

    Note: Prepared under SERI Subcontract No. XD-9-8362-1, DOE Contract No. DE-AC02-83CH10093.
    Biofuels.

    Note: 9 copies; SERI Subcontract No. XK-2-02104-01.
    Biofuels/Electrolysis/Solar Production.

    Note: 2 copies; Prepared under DOE Contract No. EG-77-C-01-4042.
    Biofuels/Hydrogen Production.
Note: 3 copies; Prepared under DOE Contract No. EG-77-C-01-4042.
Biofuels/Solar Production.

Note: Prepared under DOE Contract No. DE-AC02-83-Ch10093.
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Note: 3 copies.
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Note: 3 copies, Prepared for DOE.

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19. 312. SERI. Science & Technology In Review; Summer 1990; Vol. XII, No. 3.
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Note: Prepared under DOE Contract No. EG-77-C-01-4042.
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21. 82. SERI. Various. Photo/Biological Hydrogen Program, Principal Investigators’ Review Meeting; May 20, 1983; Unknown; May 20, 1983. 15 pages.
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   Note: Annual Report under SERI subcontract No. XX-9-19016-1.
   Biofuels/Hydrogen Storage/Solar Production.

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   Alternative Fuels - General/Wind Production/Biofuels.

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   Transportation/Biofuels.

   Spectator; October 1, 1990; 16: No. 18.
   Alternative Fuels - General/Legislation/Conservation.


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7. 60. Hudson, David V. Jr. (SERI). Analysis of the Outlook for Oil
   Note: Prepared under DOE Contract No. DE-AC02-83CH10093.
   Economics/Market Segments/Environment/Alternative Fuels - General/
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9. 214. Thuman, Albert. What is an energy audit?, How does it affect the
   Conservation/Government.

    Alternative Fuels - General/Conservation.
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   Transportation/Economics/Environment.

   Environment/Economics.

   Note: Prepared by The Futures Group, Inc. for Electric Power Research Institute.
   Electrolysis/Market Segments/Economics.

   Note: Prepared under DOE Contract No. DE-AC02-76CH00016, Division of Thermal and Mechanical Storage.
   Hydrogen Storage/Environment/Safety/Economics.

   Note: Prepared for the Jet Propulsion Laboratory, California Institute of Technology, sponsored by NASA Contract No. NAS7-100.
   Photovoltaics/Electrolysis/Wind Production/Hydrogen Storage/Market Segments/Economics/Solar Production.
Note: This is a copy of a draft/manuscript of a Market Research Report reviewed by William Hoagland.
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Note: Prepared for American Gas Assoc. by Institute of Gas Technology.


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Note: 2 copies; Prepared for Contract No. DOE XL-9-18168-1.
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Note: 3 copies; Prepared under SERI Subcontract No. XL-9-18168-1.
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Note: Prepared by The Futures Group, Inc. for Electric Power Research Institute.
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Note: 7 copies; Prepared by Fluor Daniel, Inc. for DOE, Bonneville Power Administration.
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Note: Prepared for the Jet Propulsion Laboratory, California Institute of Technology, sponsored by NASA Contract No. NAS7-100.
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Note: 2 copies; Prepared under DOE Contract No. W-31-109-Eng-38.
Economics/Electrolysis/Hydrogen Production.

Note: Prepared under DOE Contract No. DE-AC-02-78ET 26202.
Electrolysis/Economics.

Note: Prepared for American Gas Assoc. by Institute of Gas Technology.


Note: 2 copies.

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Electrolysis


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   Note: Prepared under DOE Contract No. DE-AC02-76CH00016.
   Electrolysis.

   Note: Prepared by Westinghouse R&D Center for Brookhaven National Laboratory.
   Electrolysis.

   Electrolysis/Solar Production.

   Electrolysis.

   Note: Prepared Under DOE Contract No. EY-76-C-02-0016.
   Electrolysis/Hydrogen Storage.

   Note: 2 copies.
   Electrolysis/Hydrogen Storage/Economics.
Electrolysis

Note: Under Contract No. DE-AC02-76CH00016 with DOE. Electrolysis.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Hydrogen Storage/Electrolysis.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Hydrogen Storage/Electrolysis.

Note: 3 copies; Prepared under Contract No. DE-AC02-76CH00016. Electrolysis/Hydrogen Storage.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Electrolysis/Hydrogen Storage.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Electrolysis/Hydrogen Recovery/Hydrogen Storage.
Note: Prepared under DOE Contract No. DE-AC02-76CH00016.  
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Note: Prepared under DOE Contract No. DE-AC02-76CH00016.  
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Note: Prepared under DOE Contract No. DE-AC02-76CH00016.  
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Note: Prepared under DOE Contract No. DE-AC02-76CH00016.  
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   Note: 2 copies.
   Electrolysis/Photoconversion.

   Note: Presented at the 7th Hydrogen Energy Conference, Moscow. Electrolysis.

50. 175. Ohta, Tokio (Yokohama National University, Japan). Thermoelectric Conversion with very low Entropy Production. Yokohama, Japan; Unknown. 7 pages.
   Electrolysis.

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   Note: 2 copies.
   Hydrogen Production/Electrolysis Production.

Note: Under DOE Contract No. EY-76-C-02-0016. Electrolysis/Hydrogen Storage.

Note: Under DOE Contract No. EY-76-C-02-0016. Electrolysis/Hydrogen Storage.


Note: 3 copies; Prepared for SERI. Electrolysis/Solar Production.
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Electrolysis

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Electrolysis.

Electrolysis/Solar Production.


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   Note: Chapter 6 of "Alternative Transportation Fuels; An Environmental and Energy Solution.
   Transportation/Transporting Hydrogen/Hydrogen Storage/Safety/Environment/Economics.

   Transportation/Economics/Environment.

    Environment/Economics.

    Environment/Conservation.

    Environment/Conservation.

    Environment/Conservation.

    Note: Prepared under DOE Contract No. DE-AC02-76CH00016, Division of Thermal and Mechanical Storage.
    Hydrogen Storage/Environment/Safety/Economics.

    Note: This is a copy of a draft/manuscript of a Market Research Report reviewed by William Hoagland.
    Environment/Hydrogen Storage/Alternative Fuels - General/Economics.


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Note: 3 copies; Prepared under Contract No. DE-AC02-76CH00016. Electrolysis/Hydrogen Storage.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Electrolysis/Hydrogen Storage.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Electrolysis/Hydrogen Recovery/Hydrogen Storage.

Note: 2 copies. Solar Production/Photovoltaics/Economics/Market Segments/Environment.


Environment

Hydrogen Storage.

Environment/Alternative Fuels - General/Biotechnology.

Note: Prepared by Technology Transition Corporation for Electric Power Research Institute.
Solar Production/Market Segments/Environment.

Note: Prepared under DOE Contract No. DE-AC02-83CH10093.

Alternative Fuels - General/Biofuels/Methanol/Natural Gas/Transportation/Environment/Government/Legislation/Economics.

Environment/Solar Production/Photovoltaics/Transportation.

Note: Describes research efforts in Japan.
Environment/Economics.
Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Hydrogen Storage.


Economics/Safety/Environment.

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Fuel Cells


Fuel Cells.

Note: photocopy reprint.

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Note: Prepared by United Technologies Corporation for Electric Power Research Institute.

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Fuel Cells/Transportation/Methanol.
<table>
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Note: A series of technical papers developed to support the National Energy Strategy.

Note: A series of technical papers developed to support the National Energy Strategy.

Note: A series of technical papers developed to support the National Energy Strategy.

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Note: Prepared for the U.S. Energy Research & Development Administration under Contract No. EG-77-C-02-4271.
Electrolysis/Solar Production.
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Government

Note: Page 10533 - section "Hydrogen Interests Energy Researcher," mentions hydrogen sulfide as a source of hydrogen to be used as a fuel, mentions FSEC.
Hydrogen Recovery.

Government.

Note: Prepared under DOE Contract No. DE-AC02-83CH10093.

Government.

Transportation/Government.

Market Segments/Economics.

Note: 2 copies.
Biofuels.
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Hydrogen Production


   Note: Prepared under SERI Subcontract No. XL-9-18139-1.
   Solar Production.

   Note: 3 copies; Prepared under SERI Subcontract No. XL-9-18139-1.
   Solar Production/Electrolysis Production/Photoconversion.

   Hydrogen Production.

   Liquid Hydrogen.

   Hydrogen Production/Electrolysis/Photoconversion/Hydrogen Storage/Transporting Hydrogen/Economics.
HYDROGEN BIBLIOGRAPHY

   Note: Prepared under DOE Contract No. EG-77-C-01-4042.
   Alternative Fuels - General/Hydrogen Production.

   Note: 2 copies (one is dated October, 1989).
   Economics/Photovoltaics.

   Note: 2 copies.
   Hydrogen Production.

    Note: Prepared for SERI under Contract No. BK-9-8281-02.
    Biofuels/Solar Production/Hydrogen Storage/Economics.

    Note: Prepared under DOE Contract No. DE-AC02-76CH00016.
    Electrolysis.

    Note: Prepared by Institute of Gas Technology for Gas Research Institute.
    Hydrogen Production.

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Note: Prepared by Westinghouse Electric Corporation for Electric Power Research Institute.


Note: 2 copies; Prepared under DOE Contract No. W-31-109-Eng-38.

Note: Prepared under DOE Contract No. DE-AC-02-78ET 26202.


Photoconversion/Solar Production.

Note: Presented at World Hydrogen Energy Conference IV in Pasadena, California, June, 1982; Prepared under DOE Contract No. EG-77-C-01-4042. 
Photoconversion/Solar Production.

Note: This document contains the meeting agenda, notes, and reports. Hydrogen Production.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Electrolysis.

Note: SERI Publication No. CP-255-1666. 
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Note: 3 copies; Prepared for SERI.
Electrolysis/Solar Production.

Note: Prepared for SERI Contract No. EG-77-C-01-4042.
Electrolysis/Solar Production.

Note: Prepared for U.S. Dept. of Energy, Brookhaven National Laboratory.
Electrolysis.

Note: 2 copies; SERI Subcontract No. XB-0-9332-1.
Electrolysis/Solar Production.

Alternative Fuels - General/Hydrogen Production.

Note: 2 copies; Prepared under DOE Contract No. EG-77-C-01-4042.
Biofuels/Hydrogen Production.
HYDROGEN BIBLIOGRAPHY

Hydrogen Production

Note: 3 copies, Prepared for DOE.

Note: Prepared for DOE by SERI.
Biofuels/Methanol/Hydrogen Production/Electrolysis/Legislation/
Hydrogen Storage/Transporting Hydrogen/Photovoltaics/Economics.

Photovoltaics.

Hydrogen Production.

The concept of an H2/O2 spinning reserve system is described. The hydrogen/oxygen steam generator represents the only novel power plant component of the system. The technological basis for the new conception was achieved by research work and DFVLR and verified by means of an experimental version having a thermal capacity of 40 MW. Analyses are presented showing that investment and operating costs of an H2/O2 spinning reserve system will be considerably lower than those of conventional methods. The remaining development efforts to obtain an operation system are outlined.
Hydrogen Production.
HYDROGEN BIBLIOGRAPHY


Hydrogen Production

Economics/Hydrogen Production/Natural Gas.
HYDROGEN BIBLIOGRAPHY

Hydrogen Recovery

   Note: 2 copies.

   Hydrogen Storage/Electrolysis/Transportation/Transporting Hydrogen/Hydrogen Recovery.

   Note: Page 10533 - section "Hydrogen Interests Energy Researcher," mentions hydrogen sulfide as a source of hydrogen to be used as a fuel, mentions FSEC.
   Hydrogen Recovery.

   Note: Prepared for Brookhaven National Laboratory.
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   Note: Prepared for Brookhaven National Laboratory.
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Hydrogen Recovery

Note: Prepared DOE Contract No. DE-AC02-76CH00016.
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Note: 2 copies.

Fuel Cells/Methanol/Transportation/Hydrogen Storage/Transporting Hydrogen/Economics.

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Note: Prepared for Brookhaven National Laboratory.
Hydrogen Storage/Hydrogen Recovery.

Note: Prepared for Brookhaven National Laboratory.
Hydrogen Storage/Hydrogen Recovery.

Market Segments/Economics/Hydrogen Storage/Transporting Hydrogen.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016. Hydrogen Storage.


Note: Under Contract No. DE-AC02-76CH00016. Hydrogen Storage.

Note: 2 copies.
Electrolysis/Hydrogen Storage/Economics.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016.
Hydrogen Storage/Electrolysis.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016.
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Note: 3 copies; Prepared under Contract No. DE-AC02-76CH00016.
Electrolysis/Hydrogen Storage.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016.
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Electrolysis/Hydrogen Recovery/Hydrogen Storage.
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Hydrogen Storage

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Note: Prepared under DOE Contract No. DE-AC02-76CH00016.
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Note: Prepared under DOE Contract No. DE-AC02-76CH00016.
Electrolysis/Hydrogen Storage/Transporting Hydrogen.

Note: Prepared under DOE Contract No. DE-AC02-76CH00016.
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Hydrogen Storage/Safety.

Electrolysis/Hydrogen Storage/Market Segments/Environment/Economics/ Transportation.

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   Note: From Hydrogen Energy Conference, held in Miami Beach, Florida, March 18-20, 1974.
   Economics/Hydrogen Storage.

   Note: Prepared for Brookhaven National Laboratory under Contract No. 412123-S.
   Transportation/Safety/Hydrogen Storage.

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   Work under the Hydrogen Agreement of the International Energy Agency on storage, energy conversion and safety was started in 1983 by Canada, the F.R.G., Japan, Sweden, Switzerland and the U.S.A. Some of the results achieved within the main areas of the program are summarized: hydrogen storage in metal hydrides and in liquid form, hydrogen as a fuel for ground transportation vehicles, hydrogen embrittlement of ferritic steels as well as the transition from deflagration to detonation of hydrogen-air mixtures. Based on the context of other projects, an outlook for the program is given.
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68. Pfriem, H. J. Overview of the Cooperative Program on Hydrogen Storage, conversion and Safety of the International Energy Agency. Int. J. Hydrogen Energy; 1991; Vol. 16, No. 5: pp. 329-338. Work under the Hydrogen Agreement of the International Energy Agency on storage, energy conversion and safety was started in 1983 by Canada, the F. R. G., Japan, Sweden, Switzerland and the U.S.A. Some of the results achieved within the main areas of the program are summarized: hydrogen storage in metal hydrides and in liquid form, hydrogen as a fuel for ground transportation vehicles, hydrogen embrittlement of ferritic steels as well as the transition from deflagration to detonation of hydrogen-air mixtures. Based on the context of other projects, an outlook for the program is given. Hydrogen Storage/Safety.


Note: Presented at the International Symposium on the Properties and Applications of Metal Hydrides IV, Israel, April, 1984. 
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Note: Presented at International Workshop on Metal Hydrides for Hydrogen Storage, Purification and Thermodynamic Devices. 
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Note: Under Contract No. EY-76-C-02-0016. 
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Note: Under Contract No. EY-76-C-02-0016. 
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   Note: Under Contract No. EY-76-C-02-0016.
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   Note: Under contract with the U.S. Atomic Energy Commission.
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   Note: Under DOE Contract No. EY-76-C-02-0016.
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