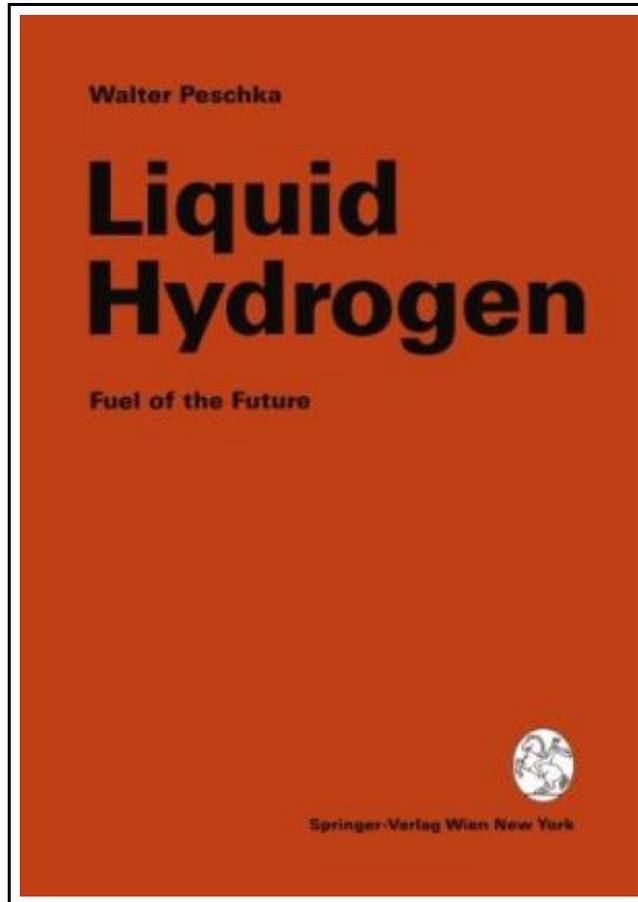


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Book Condition: New. Publisher/Verlag: Springer, Wien | Fuel of the Future | to the German Edition This book is based on published material, oral presentations and lecture courses, as well as the author's personal research in the specific field of space technology and in the general areas of energy storage and transfer, and cryogenics. The science and technology of liquid hydrogen-once essential prerequisites for the rapid development of space technology-are now also proving to be more and more important for the energy production of the future. Hydrogen as an energy carrier can generally mediate the existing disparity between nuclear energy and regenerative energy, both of which are indispensable for the future. Hydrogen, as a secondary energy carrier, can be produced from these primary energy sources with minimal environmental impact and without the detrimental, long-term pollution effects of current fossil fuel technology. Hydrogen, therefore, represents the ultimate in energy technology. The initial, large-scale application of hydrogen as a secondary energy was as a high-energy rocket propellant. The procedures for its large scale liquefaction, storage and employment were generally developed in the U.S. Currently in Europe similar activities are being conducted only in France. The effort in West Germany involves testing hydrogen-oxygen and hydrogen-fluorine rocket engines, studying also the physical and technical characteristics of slush hydrogen-mixture of the solid and liquid phase-and is concentrating currently on R&D applications of liquid hydrogen as an alternate fuel. Similar activities are also being conducted in Japan and Canada. | 1 Introduction.- 2 Hydrogen Production.- 2.1 Hydrogen from Fossil Raw Materials.- 2.2 Electrolytic Hydrogen Production.- 2.3 Thermochemical Water Decomposition Procedure.- 2.4 Further Procedures for Hydrogen Production from Water.- References.- 3 Hydrogen Liquefaction.- 3.1 Fundamental Principles of Hydrogen Liquefaction.- 3.1.1 Refrigeration Processes as a Result of External Work.- 3.1.2 Refrigeration Processes as a Result of Internal...

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