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2.4: Hydrogen Storage Safety Aspects2.4.1: Hydrogen Properties Related to Safety; 2.4.2: Selected Incidents with Hydrogen; 2.4.3: Human Health Impact; 2.4.4: Sensors; 2.4.5: Regulations, Codes, and Standards (RCS); 2.4.6: Safety Aspects in the Hydrogen Chain from Production to the User; 2.4.6.1: Hydrogen Production; 2.4.6.2: Hydrogen Refuelling Stations; 2.4.6.3: Storage/Transportation (Compressed/Liquid/Metal Hydride); 2.4.6.4: Garage for Repairing Cars; 2.4.7: Safety Aspects of Hydrogen Vehicles; 2.4.8: Safe Removal of Hydrogen; References
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4.3.5.1: Zero Boil-Off Solutions

Sommario/riassunto

An exploration of current and possible future hydrogen storage technologies, written from an industrial perspective. The book describes the fundamentals, taking into consideration environmental, economic and safety aspects, as well as presenting infrastructure requirements, with a special focus on hydrogen applications in production, transportation, military, stationary and mobile storage. A comparison of the different storage technologies is also included, ranging from storage of pure hydrogen in different states, via chemical storage right up to new materials already under development
