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Plants -- References -- 4 Thermal Insulation, Storage and Transportation of Liquid Hydrogen -- 4.1 Mechanisms of Heat Transfer and Insulation Techniques -- 4.2 Storage and Transportation of Liquid Hydrogen -- 4.3 Liquid Hydrogen Pipelines -- 4.4 Liquid Hydrogen Pumps -- References -- 5 Liquid Hydrogen as a Rocket Propellant --5.1 Chemical Rocket Propulsion -- 5.2 Nuclear Rocket Propulsion --References -- 6 Liquid Hydrogen as Fuel -- 6.1 Air Transport -- 6.2 Ground Transport -- References -- 7 Outlook to Future Applications --7.1 Hydrogen as an Energy Carrier in the Future -- 7.2 Motor Vehicle Applications -- 7.3 Rail Vehicle Applications -- 7.4 Applications in Water Transportation -- 7.5 Applications in Aviation and Space Flight

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