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NPTEL Video Course - Chemical Engineering - NOC: Hydrogen Energy: Production, Storage, Transportation and Safe Subject Co-ordinator - Prof. Pratibha Sharma Co-ordinating Institute - IIT - Bombay Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable Lecture 1 - Properties of Hydrogen Lecture 2 - Status of Hydrogen Supply and Demand Lecture 3 - Methods of Hydrogen Production Lecture 4 - Steam Methane Reforming - Part 1 Lecture 5 - Steam Methane Reforming - Part 2 Lecture 6 - Steam Reforming of Higher Hydrocarbons Lecture 7 - Tutorial-1 Lecture 8 - Advanced Methods of Steam Reforming Lecture 9 - Partial Oxidation Method for Hydrogen Production Lecture 10 - Autothermal Reforming Lecture 11 - Combined, Dry, Bi and Tri Reforming Lecture 12 - Reforming using Alternate Energy Sources Lecture 13 - Tutorial-2 Lecture 14 - Hydrogen Production by Methane Decomposition Lecture 15 - Hydrogen Production from Biomass - Part 1 Lecture 16 - Hydrogen Production from Biomass - Part 2 Lecture 17 - Hydrogen Production from Biomass - Part 3 Lecture 18 - Hydrogen Production from Coal Lecture 19 - Tutorial-3 Lecture 20 - Hydrogen Separation and Purification - Part 1 Lecture 21 - Hydrogen Separation and Purification - Part 2 Lecture 22 - Thermochemical Cycles for Hydrogen Production Lecture 23 - Electrolysis of Water for Hydrogen Production Lecture 24 - Fundamental of Electrolysis of Water Lecture 25 - Electrolytic Cell Components and Electrolyzer stack Lecture 26 - Different Types of ElectrolyzerTechnologies Lecture 27 - Photoelectrochemical Hydrogen Production

Lecture 28 - Tutorial-4

Lecture 29 - Technical Comparison of Various Hydrogen Production Routes

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Lecture 30 - Economics and Status of Various Hydrogen Production Routes Lecture 31 - Introduction to Hydrogen Storage Lecture 32 - Underground Hydrogen Storage Lecture 33 - Fundamentals of Hydrogen Compression and Expansion Lecture 34 - Thermodynamics of Hydrogen Compression - Part 1 Lecture 35 - Thermodynamics of Hydrogen Compression - Part 2 Lecture 36 - Reciprocating and Diaphragm compressors for Hydrogen Compression Lecture 37 - Linear and Liquid Hydrogen Compressors Lecture 38 - Cryogenic and Metal Hydride based Hydrogen Compressors Lecture 39 - Electrochemical and Adsorption based Compressors Lecture 40 - Compressed Hydrogen Tanks Lecture 41 - Tutorial-5 Lecture 42 - Hydrogen Liquefaction Lecture 43 - Liquid State Hydrogen Storage Lecture 44 - Fundamentals of Adsorption based Materials for Hydrogen Storage Lecture 45 - Adsorption based Solid State Hydrogen Storage Materials Lecture 46 - Metal Hydrides for Solid State Hydrogen Storage - Part 1 Lecture 47 - Fundamentals of Metal hydrides for Solid State Hydrogen Storage - Part 1 Lecture 48 - Fundamentals of Metal Hydrides for Solid State Hydrogen Storage - Part 2 Lecture 49 - Different Types of Hydrides for Hydrogen Storage Lecture 50 - Tailoring Metal Hydrides for Practical Applications: Nanostructure - Part 1 Lecture 51 - Tailoring Metal Hydrides for Practical Applications: Nanostructure - Part 2 Lecture 52 - MH System Design and Experimental Facilities on SolidState Hydrogen Storage Lecture 53 - Tutorial-6 (MH systems design) Lecture 54 - Novel Materials and Overall Storage Lecture 55 - Overview of Storage Methods and Economics Lecture 56 - Hydrogen Transportation via H2 Pipelines Lecture 57 - Other Options for Long Distance Hydrogen Transmission Lecture 58 - Hydrogen Transport via Road Lecture 59 - Hydrogen Refuelling Stations Lecture 60 - Use of Hydrogen in Internal Combustion Engines - Part 1 Lecture 61 - Use of Hydrogen in Internal Combustion Engines - Part 2 Lecture 62 - Use of Hydrogen in Fuel Cells Lecture 63 - Hydrogen Sensing - Part 1 Lecture 64 - Hydrogen Sensing - Part 2 Lecture 65 - Properties of Hydrogen Associated with Accidents Lecture 66 - Classification of Hydrogen related Hazards Lecture 67 - Compressed and Liquid Hydrogen Related Hazards Lecture 68 - Regulations, Codes and Standards

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Lecture 69 - Utilisation in Different Sectors, Global Status and Future Directions

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