

# NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mechanical Engineering - NOC:Cryogenic Hydrogen Technology

Subject Co-ordinator - Prof. Indranil Ghosh

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction
- Lecture 2 - Hydrogen Properties
- Lecture 3 - Slush Hydrogen, Ortho-Para H<sub>2</sub>
- Lecture 4 - Ortho-Para H<sub>2</sub> Conversion
- Lecture 5 - Deuterium Production
- Lecture 6 - Hydrogen Production - 1
- Lecture 7 - Hydrogen Production - 2
- Lecture 8 - Hydrogen Production - 3
- Lecture 9 - Hydrogen Production
- Lecture 10 - Hydrogen Production
- Lecture 11 - Hydrogen Production (Electrolysis)
- Lecture 12 - Electrolytic Hydrogen
- Lecture 13 - Electrolytic Hydrogen
- Lecture 14 - SPE Water Electrolyser
- Lecture 15 - Thermochemical Process
- Lecture 16 - Hydrogen Storage: Overview
- Lecture 17 - Compressed Hydrogen Storage
- Lecture 18 - Compressed Hydrogen Storage
- Lecture 19 - Overview on Hydrogen Storage
- Lecture 20 - Adsorption Storage of Hydrogen
- Lecture 21 - Basics of Cryogenic Liquefaction
- Lecture 22 - Coefficient of Expansion
- Lecture 23 - Cryogenic Liquefaction Cycles
- Lecture 24 - Cryogenic Liquefaction (Continued...)
- Lecture 25 - Hydrogen Liquefaction
- Lecture 26 - Cryogenic Liquefaction (Continued...)
- Lecture 27 - Cryogenic Liquefaction - Numerical
- Lecture 28 - Cryogenic Liquefaction - Numerical
- Lecture 29 - Cryogenic Liquefaction (Continued...)

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- Lecture 30 - Cryogenic Liquefaction (Continued...)
- Lecture 31 - Cryo Hydrogen Storage
- Lecture 32 - Cryo Hydrogen Storage
- Lecture 33 - Cryo Hydrogen Storage
- Lecture 34 - Cryogenic Liquid Level Measurement
- Lecture 35 - Flow Rate/Fluid Quality Measurement
- Lecture 36 - Temperature Measurement
- Lecture 37 - Application: Fuel Cell
- Lecture 38 - Fuel Cell (Continued...)
- Lecture 39 - Cryogenic Rocket Propulsion
- Lecture 40 - Hydrogen Safety