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

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NPTEL Video Course - Aerospace Engineering - High Speed Aero Dynamics
Subject Co-ordinator - Dr. K.P. Sinhamahapatra
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction and Review of Thermodynamics
Lecture 2 - Review of Thermodynamics (Continued...)
Lecture 3 - Review of Thermodynamics (Continued...)
Lecture 4 - Review of Thermodynamics (Continued...)
Lecture 5 - One-dimensional gas dynamics
Lecture 6 - One-dimensional gas dynamics (Continued...)
Lecture 7 - One-dimensional gas dynamics (Continued...)
Lecture 8 - One-dimensional waves
Lecture 9 - One-dimensional waves (Continued...)
Lecture 10 - One-dimensional waves (Continued...)
Lecture 11 - Waves and Supersonic Flow
Lecture 12 - Waves and Supersonic Flow (Continued...)
Lecture 13 - Waves and Supersonic Flow (Continued...)
Lecture 14 - Waves and Supersonic Flow (Continued...)
Lecture 15 - Shock Expansion Theory
Lecture 16 - Flow through ducts and channels
Lecture 17 - Flow in ducts
Lecture 18 - Flow in ducts (Continued...)
Lecture 19 - Adiabatic Flow in ducts with friction
Lecture 20 - Adiabatic flow in ducts with friction (Continued...)
Lecture 21 - Isothermal flow in ducts with friction
Lecture 22 - Flow in uniform duct with heating
Lecture 23 - Multi - dimensional flow problems
Lecture 24 - Multi - dimensional flow problems (Continued...)
Lecture 25 - Linearized flow problems
Lecture 26 - Linearized flow problems (Continued...)
Lecture 27 - Linearized flow problems (Continued...)
Lecture 28 - Linearized flow problems (Continued...)
Lecture 29 - Linearized flow problems (Continued...)
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Lecture 30 - Linearized flow problems (Continued...)

Lecture 31 - Linearized flow problems (Continued...)

Lecture 32 - Linearized Problems - Forces on Slender Bodies

Lecture 33 - Linearized Problems - Forces on Slender Bodies (Continued...)

Lecture 34 - Similarity Rules for High Speed Flows

Lecture 35 - Similarity Rules for High Speed Flows (Continued...)

Lecture 36 - Similarity Rules for High Speed Flows (Continued...)

Lecture 37 - Similarity Rules in Hypersonic Flow

Lecture 38 - Transonic Flow

Lecture 39 - Transonic Flow (Continued...)

Lecture 40 - Transonic Flow (Continued...)
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