

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

NPTEL Video Course - Mechanical Engineering - Gas Dynamics and Propulsion

Subject Co-ordinator - Prof. V. Babu

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction
Lecture 2 - Introduction / Fundamental Ideas
Lecture 3 - Fundamental Ideas
Lecture 4 - Fundamental Ideas
Lecture 5 - Fundamental Ideas / Normal Shock Waves
Lecture 6 - Normal Shock Waves
Lecture 7 - Normal Shock Waves / Rayleigh Flow
Lecture 8 - Rayleigh Flow
Lecture 9 - Rayleigh Flow
Lecture 10 - Rayleigh Flow / Fanno Flow
Lecture 11 - Fanno Flow
Lecture 12 - Fanno Flow
Lecture 13 - Fanno Flow / Quasi One Dimensional Flows
Lecture 14 - Quasi One Dimensional Flows
Lecture 15 - Quasi One Dimensional Flows
Lecture 16 - Quasi One Dimensional Flows
Lecture 17 - Quasi One Dimensional Flows
Lecture 18 - Quasi One Dimensional Flows
Lecture 19 - Quasi One Dimensional Flows
Lecture 20 - Oblique Shock Waves
Lecture 21 - Oblique Shock Waves
Lecture 22 - Oblique Shock Waves
Lecture 23 - Oblique Shock Waves / Prandtl Meyer Waves
Lecture 24 - Prandtl Meyer Waves
Lecture 25 - Prandtl Meyer Waves
Lecture 26 - Propulsion - an Introduction
Lecture 27 - Components of the Gas Turbine Engine
Lecture 28 - Components of the Gas Turbine Engine
Lecture 29 - Components of the Gas Turbine Engine

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- Lecture 30 - Components of the Gas Turbine Engine
- Lecture 31 - Components of the Gas Turbine Engine / Thermodynamic Analysis of the Engine
- Lecture 32 - Thermodynamic Analysis of the Engine
- Lecture 33 - Thermodynamic Analysis of the Engine
- Lecture 34 - Calculations for Thrust and Fuel Consumption
- Lecture 35 - Calculations for Thrust and Fuel Consumption
- Lecture 36 - Calculations for Thrust and Fuel Consumption / Emerging Trends
- Lecture 37 - Emerging Trends / Ramjets
- Lecture 38 - Ramjets
- Lecture 39 - Ramjets / Scramjets
- Lecture 40 - Scramjets