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

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NPTEL Video Course - Aerospace Engineering - NOC: Introduction to Launch Vehicle Analysis and Design
Subject Co-ordinator - Prof. Ashok Joshi
Co-ordinating Institute - IIT - Bombay
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction
Lecture 2 - Course Plan
Lecture 3 - Ascent Mission Basics
Lecture 4 - Force and Geometry Models - 1
Lecture 5 - Force and Geometry Models - 2
Lecture 6 - Idealized Performance
Lecture 7 - Trajectory Under Gravity
Lecture 8 - Impact of Gravity
Lecture 9 - Impact of Drag
Lecture 10 - Curvilinear Motion Concept
Lecture 11 - Constant Pitch Rate Solution
Lecture 12 - Constant Velocity Solution
Lecture 13 - Constant (T/m) Solution
Lecture 14 - Ascent Mission Design
Lecture 15 - Multi-stage Rocket Basics
Lecture 16 - Multi-stage Configuration Basics
Lecture 17 - Multi-stage Solution Basics
Lecture 18 - Multi-stage Problem Definition
Lecture 19 - Optimal Staging Strategy
Lecture 20 - Lagrange Solution
Lecture 21 - Approximate Staging Solution
Lecture 22 - Variant Concept
Lecture 23 - Variant Design Solution
Lecture 24 - Parallel Staging Concept
Lecture 25 - Parallel Staging Benefits
Lecture 26 - Jet Damping and Ballistic Missiles
Lecture 27 - Current Rocket Concepts
Lecture 28 - Launch Widow and SSTO Concepts
Lecture 29 - Reentry Concept
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Lecture 30 - Ballistic Reentry Solution

Lecture 31 - Lifting and Other Reentry Modes

Lecture 32 - Concluding Remarks

Lecture 33 - Rectilinear Trajectories

Lecture 34 - Curvilinear Trajectories Lecture 35 - Multi-stage Rocket Concept

Lecture 36 - Optimal Multi-stage Solutions
