

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

NPTEL Video Course - Mechanical Engineering - NOC:Kinematics of Mechanisms and Machines

Subject Co-ordinator - Prof. A. Dasgupta

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction and Motivation
Lecture 2 - Nomenclature and Classification
Lecture 3 - Kinematic Diagram
Lecture 4 - Degree of Freedom
Lecture 5 - Constrained and Robotic Mechanisms
Lecture 6 - Failure of DOF Calculation
Lecture 7 - Grashof Criterion - I
Lecture 8 - Grashof Criterion - II
Lecture 9 - Grashof Criterion - Problems
Lecture 10 - Displacement Analysis - I
Lecture 11 - Displacement Analysis - II
Lecture 12 - Displacement Analysis Example - I
Lecture 13 - Displacement Analysis Example - II
Lecture 14 - Steering Mechanisms
Lecture 15 - Displacement Analysis of Robots - I
Lecture 16 - Displacement Analysis of Robots - II
Lecture 17 - Displacement Analysis of Robots - III
Lecture 18 - Geometric Velocity Analysis - I
Lecture 19 - Geometric Velocity Analysis - II
Lecture 20 - Geometric Velocity Analysis - III
Lecture 21 - Velocity Analysis
Lecture 22 - Velocity Analysis
Lecture 23 - Velocity Analysis
Lecture 24 - Analytical Velocity Analysis - I
Lecture 25 - Analytical Velocity Analysis - II
Lecture 26 - Analytical Velocity Analysis - III
Lecture 27 - Velocity Analysis Examples
Lecture 28 - Robot Velocity Analysis - I
Lecture 29 - Robot Velocity Analysis - II

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- Lecture 30 - Robot Velocity Analysis - III
- Lecture 31 - Robot Path Generation
- Lecture 32 - Acceleration Analysis - I
- Lecture 33 - Acceleration Analysis - II
- Lecture 34 - Force Analysis - I
- Lecture 35 - Force Analysis - II
- Lecture 36 - Force Analysis Examples
- Lecture 37 - Gear Kinematics
- Lecture 38 - Gear trains - I
- Lecture 39 - Gear trains - II
- Lecture 40 - Gear trains - III