

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

NPTEL Video Course - Mechanical Engineering - Tribology

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Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction
- Lecture 2 - Interdisciplinary Approach and Economic Benefits
- Lecture 3 - Friction
- Lecture 4 - Friction Estimation
- Lecture 5 - Friction Instability
- Lecture 6 - Wear
- Lecture 7 - Adhesive Wear
- Lecture 8 - Wear Mechanisms
- Lecture 9 - Wear Mechanisms - 2
- Lecture 10 - Wear Analysis
- Lecture 11 - Lubrication and Lubricants
- Lecture 12 - Boundary Lubrication
- Lecture 13 - Lubrication Mechanisms
- Lecture 14 - Hydrodynamic Lubrication
- Lecture 15 - Lubricant Classifications
- Lecture 16 - Solid and Semi Solid Lubricants
- Lecture 17 - Liquid Lubricants
- Lecture 18 - Lubricant Additives
- Lecture 19 - Fluid Film Lubrication
- Lecture 20 - Reynolds Equation
- Lecture 21 - Solution of Reynolds Equation
- Lecture 22 - Hybrid Solution Approach (to solve Reynolds Equation)
- Lecture 23 - Finite Difference Method to Solve Reynolds Equation
- Lecture 24 - Viscosity Variation
- Lecture 25 - Estimating Elastic Deformation
- Lecture 26 - Thermo Hydrodynamic Lubrication
- Lecture 27 - Application of Tribology
- Lecture 28 - Rolling Element Bearings
- Lecture 29 - Rolling Element Bearings (Continued...)

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- Lecture 30 - Rolling Element Bearings (Continued...)
- Lecture 31 - Selection of Rolling Element Bearings
- Lecture 32 - Friction of Rolling Element Bearing
- Lecture 33 - Bearing Clearance
- Lecture 34 - Bearing Lubrication
- Lecture 35 - Tribology of Gears
- Lecture 36 - Friction and Lubrication of Gears
- Lecture 37 - Friction and Lubrication of Gears (Continued...)
- Lecture 38 - Surface Fatigue of Spur Gears
- Lecture 39 - Journal Bearings
- Lecture 40 - Hydrostatic Bearings
- Lecture 41 - Hydrodynamic Journal Bearings
- Lecture 42 - Design of Hydrodynamic Journal Bearings