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

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NPTEL Video Course - Metallurgy and Material Science - NOC: Friction and Wear of Materials: Principles and Cas
Subject Co-ordinator - Prof. Dr. B. V. Manoj Kumar, Prof. Bikramjit Basu
Co-ordinating Institute - IISc - Bangalore
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Tribology
Lecture 2 - Surfaces and contacts
Lecture 3 - Friction
Lecture 4 - Contact temperature
Lecture 5 - Lubrication
Lecture 6 - Wear mechanisms
Lecture 7 - Wear mechanisms
Lecture 8 - Wear mechanisms
Lecture 9 - Wear mechanisms
Lecture 10 - Wear mechanisms
Lecture 11 - Overview of tribological materials
Lecture 12 - Friction and wear of metal matrix composites
Lecture 13 - Overview
Lecture 14 - Fabrication of engineering polymers
Lecture 15 - Polymer Ceramic Composites for Orthopedic Applications
Lecture 16 - Processing concepts of ceramics
Lecture 17 - Mechanical properties of ceramics
Lecture 18 - Fracture and toughening of brittle solids
Lecture 19 - Sliding wear of SiC Ceramics
Lecture 20 - Sliding wear of SiC-WC Composites
Lecture 21 - Friction and wear of HDPE-HA-Al203
Lecture 22 - Wear behavior of bioceramics and biocomposites
Lecture 23 - Tribological behavior of dental restorative materials
Lecture 24 - Wear of transformation toughened zirconia
Lecture 25 - Fretting wear of SiAlON Ceramics
Lecture 26 - Tribochemistry in wear of cermets
Lecture 27 - Overview
Lecture 28 - Wear of YSZ nanoceramics
Lecture 29 - Wear behavior of nanostructured WC-ZrO2 nanocomposites
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Lecture 30 - Erosive wear of SiC-WC composites

Lecture 31 - Overview

Lecture 32 - Sliding wear of alumina ceramics and zirconia ceramics in cryogenic environment

Lecture 33 - Sliding wear of silicon carbide in cryogenic environment

Lecture 34 - Wear of TiB2 Ceramic Composites

Lecture 35 - Erosive wear of ultra-high temperature NbB2-based ceramic composites

Lecture 36 - Erosive wear of ultra-high temperature ZrB2-based ceramic composites

Lecture 37 - Computational analysis in assessing wear

Lecture 38 - Basics of ceramics coating techniques

Lecture 39 - Erosive wear of WC-Co coating

Lecture 40 - Abrasive wear of WC-Co coating