

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

NPTEL Video Course - Mechanical Engineering - NOC:Mechanics of Sheet Metal Forming

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Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction to sheet forming and tensile test of sheets
- Lecture 2 - Tensile test, effect of properties, exercise problem
- Lecture 3 - Sheet deformation processes
- Lecture 4 - Sheet deformation processes (Continued...)
- Lecture 5 - Sheet deformation processes (Continued...)
- Lecture 6 - Sheet deformation in plane stress
- Lecture 7 - Sheet deformation in plane stress (Continued...)
- Lecture 8 - Stamping analyses
- Lecture 9 - Load instability and tearing
- Lecture 10 - Load instability and tearing
- Lecture 11 - Formability testing of sheet metals
- Lecture 12 - Sheet formability
- Lecture 13 - Sheet formability (Continued...)
- Lecture 14 - Bending of sheets
- Lecture 15 - Bending of sheets (Continued...)
- Lecture 16 - Cup deep drawing
- Lecture 17 - Deep drawing, redrawing, ironing of cup
- Lecture 18 - Stretching of sheet
- Lecture 19 - Hydroforming
- Lecture 20 - Yield functions with sheet anisotropy
- Lecture 21 - Demonstration of sheet forming experiments