

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

NPTEL Video Course - Mechanical Engineering - NOC:Introduction to Uncertainty Analysis and Experimentation

Subject Co-ordinator - Unknown

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Course Outline, Introduction
Lecture 2 - Experimentation Processes and Applications Overview
Lecture 3 - Developments in Uncertainty Analysis, Approach
Lecture 4 - Errors, Their Causes and Classification
Lecture 5 - Errors to Uncertainty via Statistics
Lecture 6 - Sources of Errors, Uncertainty Definitions
Lecture 7 - Experimentation - I
Lecture 8 - Experimentation Stages / Phases I
Lecture 9 - Experimentation Stages / Phases II
Lecture 10 - Uncertainty Analysis Processes
Lecture 11 - Instrument ans DAS
Lecture 12 - Basic procedure - I
Lecture 13 - Basic procedure - II
Lecture 14 - Evaluating systematic uncertainties
Lecture 15 - Worksheets for uncertainty in a measurement, Examples
Lecture 16 - Examples of uncertainty in a measurement
Lecture 17 - Methodologies, Multiple tests method
Lecture 18 - Single test, Basics of taylor Series Method
Lecture 19 - Sensitivity coefficient, Result uncertainty from TSM
Lecture 20 - Result uncertainty TSM: Special cases
Lecture 21 - Method selection, Worksheets for result uncertainty
Lecture 22 - Examples for result uncertainty - 1
Lecture 23 - Examples for result uncertainty - 2
Lecture 24 - Regression Introduction
Lecture 25 - Regression analysis - Linear, single variable
Lecture 26 - Correlation, Related topics
Lecture 27 - Reporting uncertainties
Lecture 28 - Validation and verification aspects, Data archiving
Lecture 29 - Course overview

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