NPTEL Video Course - Mechanical Engineering - NOC:Heat Treatment and Surface Hardening - II

Subject Co-ordinator - Dr. Kallol Mondal

Co-ordinating Institute - IIT - Kanpur

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

Lecture 30 - Implication of Avramiâ s equation with example on excel spreadsheet
Lecture 31 - Experimental verification of Avrami Equation
Lecture 32 - Linear regression (least squares) method to find the value of n and k in Avrami equation
Lecture 33 - In this lecture, method to determine the goodness of fit has been explained. Procedure to estima
Lecture 34 - Stereology and quantitative metallography - I
Lecture 35 - Stereology and quantitative metallography - II
Lecture 36 - Grain size measurements methods
Lecture 37 - Statistical tools for analysis and reporting of obtained data with examples
Lecture 38 - Evolution of TTT and CCT diagram from f vs. t plots
Lecture 39 - TTT, CCT continue and hardenability of steel
Lecture 40 - Importance of heat treatment practices in real life (with examples)