NPTEL Video Course - Mechanical Engineering - NOC:Modelling and Simulation of Dynamic Systems

Subject Co-ordinator - Prof. Pushparaj Mani Pathak

Co-ordinating Institute - IIT - Roorkee

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

Lecture 30 - Bode Plot
Lecture 31 - Simulation using SIMULINK
Lecture 32 - Simulation of simple and compound pendulums
Lecture 33 - Simulation of planar mechanisms
Lecture 34 - Simulation of wheeled mobile robots
Lecture 35 - Validation and Verification of Simulation Models
Lecture 36 - Parameter estimation methods
Lecture 37 - Parameter estimation examples
Lecture 38 - System identifications
Lecture 39 - Introduction to Optimization
Lecture 40 - Optimization with modeling of engineering problems