

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

NPTEL Video Course - Multi Disciplinary - NOC: Intelligent Feedback and Control

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Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Understanding PID Control
- Lecture 2 - Process Model: Experimental Methods
- Lecture 3 - Model Reduction
- Lecture 4 - Disturbance Models and PID
- Lecture 5 - PID Tuning Methods
- Lecture 6 - PID Tuning Methods (Continued...)
- Lecture 7 - Selection of PID Controller
- Lecture 8 - Designing Controllers in a Jugaad Way
- Lecture 9 - To explain why jugaad works....
- Lecture 10 - Feedforward Design
- Lecture 11 - State-space methods - Feedforward Control
- Lecture 12 - Internal Model Control (IMC)
- Lecture 13 - Overview of Control Techniques
- Lecture 14 - Multivariable Control
- Lecture 15 - Multivariable Control (Continued...)
- Lecture 16 - Decoupler Design
- Lecture 17 - Feedback Decouplers and Centralized Controllers
- Lecture 18 - Large Scale MIMO Systems
- Lecture 19 - Understanding irreducible transfer functions
- Lecture 20 - Data Driven PID Control
- Lecture 21 - Data Driven PID Control (Continued...)
- Lecture 22 - Control and Learning
- Lecture 23 - Control using Reinforcement Learning (RL)
- Lecture 24 - Reinforcement learning based control for inverted pendulum
- Lecture 25 - Policy Gradient based Reinforcement Learning
- Lecture 26 - Using MATLAB for Reinforcement Learning
- Lecture 27 - Course Summary

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