

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

NPTEL Video Course - Engineering Design - NOC:Control Systems

Subject Co-ordinator - Prof. C.S.Shankar Ram

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to Control Systems - Part 1
Lecture 2 - Introduction to Control Systems - Part 2
Lecture 3 - Overview of Feedback Control Systems - Part 1
Lecture 4 - Overview of Feedback Control Systems - Part 2
Lecture 5 - Mathematical Preliminaries - Part 1
Lecture 6 - Mathematical Preliminaries - Part 2
Lecture 7 - Transfer Function - Part 1
Lecture 8 - Transfer Function - Part 2
Lecture 9 - System Response - Part 1
Lecture 10 - System Response - Part 2
Lecture 11 - BIBO Stability - Part 1
Lecture 12 - BIBO Stability - Part 2
Lecture 13 - Effect of Zeros - Part 1
Lecture 14 - Effect of Zeros - Part 2
Lecture 15 - Closed Loop System - Part 1
Lecture 16 - Closed Loop System - Part 2
Lecture 17 - First Order Systems - Part 1
Lecture 18 - First Order Systems - Part 2
Lecture 19 - Second Order Systems - Part 1
Lecture 20 - Second Order Systems - Part 2
Lecture 21 - Controllers - Part 1
Lecture 22 - Controllers - Part 2
Lecture 23 - Closed Loop Control - Part 1
Lecture 24 - Closed Loop Control - Part 2
Lecture 25 - Routh's Stability Criterion - Part 1
Lecture 26 - Routh's Stability Criterion - Part 2
Lecture 27 - Special Cases of Routh's Stability Criterion - Part 1
Lecture 28 - Special Cases of Routh's Stability Criterion - Part 2
Lecture 29 - Performance Specifications - Part 1

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- Lecture 30 - Performance Specifications - Part 2
- Lecture 31 - Steady State Error Analysis - Part 1
- Lecture 32 - Steady State Error Analysis - Part 2
- Lecture 33 - Root Locus 1 - Part 1
- Lecture 34 - Root Locus 1 - Part 2
- Lecture 35 - Root Locus 2 - Part 1
- Lecture 36 - Root Locus 2 - Part 2
- Lecture 37 - Root Locus 3 - Part 1
- Lecture 38 - Root Locus 3 - Part 2
- Lecture 39 - Root Locus 4 - Part 1
- Lecture 40 - Root Locus 4 - Part 2
- Lecture 41 - Case Study - Modelling - Part 1
- Lecture 42 - Case Study - Modelling - Part 2
- Lecture 43 - Case Study - Control Design - Part 1
- Lecture 44 - Case Study - Control Design - Part 2
- Lecture 45 - State Space Representation - Part 1
- Lecture 46 - State Space Representation - Part 2
- Lecture 47 - Frequency Response - Part 1
- Lecture 48 - Frequency Response - Part 2
- Lecture 49 - Bode Plot 1 - Part 1
- Lecture 50 - Bode Plot 1 - Part 2
- Lecture 51 - Bode Plot 2 - Part 1
- Lecture 52 - Bode Plot 2 - Part 2
- Lecture 53 - Bode Plot 3 - Part 1
- Lecture 54 - Bode Plot 3 - Part 2
- Lecture 55 - Bode Plot 4 - Part 1
- Lecture 56 - Bode Plot 4 - Part 2
- Lecture 57 - Nyquist Plot 1 - Part 1
- Lecture 58 - Nyquist Plot 1 - Part 2
- Lecture 59 - Nyquist Plot 2 - Part 1
- Lecture 60 - Nyquist Plot 2 - Part 2
- Lecture 61 - Nyquist Stability Criterion - Part 1
- Lecture 62 - Nyquist Stability Criterion - Part 2
- Lecture 63 - Relative Stability 1 - Part 1
- Lecture 64 - Relative Stability 1 - Part 2
- Lecture 65 - Relative Stability 2 - Part 1
- Lecture 66 - Relative Stability 2 - Part 2
- Lecture 67 - Lead Compensation - Part 1
- Lecture 68 - Lead Compensation - Part 2

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- Lecture 69 - Lead Compensator Design - Part 1
- Lecture 70 - Lead Compensator Design - Part 2
- Lecture 71 - Lag and Lag-Lead Compensation - Part 1
- Lecture 72 - Lag and Lag-Lead Compensation - Part 2