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

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NPTEL Video Course - Electrical Engineering - Control Engineering (Prof. S.D. Agashe)
Subject Co-ordinator - Prof. S.D. Agashe
Co-ordinating Institute - IIT - Bombay
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - The Control Problem
Lecture 2 - Some More Examples
Lecture 3 - Different Kinds of Control Systems
Lecture 4 - History of Feedback
Lecture 5 - Modern Control Problems
Lecture 6 - DC Motor Speed Control
Lecture 7 - System Modelling, Analogy
Lecture 8 - Causes of System Error
Lecture 9 - Calculation of Error
Lecture 10 - Control System Sensitivity
Lecture 11 - Automatic Control of DC Motor
Lecture 12 - Proportional Control
Lecture 13 - Non-Unity Feedback
Lecture 14 - Signal-Flow Graph
Lecture 15 - Mason's Gain Formula
Lecture 16 - Signal-Flow Graph for DC Motor Control
Lecture 17 - Steady-State Calculations
Lecture 18 - Differential Equation Model and Laplace Transformation Model
Lecture 19 - D-Operator Method
Lecture 20 - Second-Order System Response
Lecture 21 - Frequency Response
Lecture 22 - Laplace Transformation Theorems
Lecture 23 - Final Value Theorem
Lecture 24 - Transfer Function and Pole-Zero Diagram
Lecture 25 - 'Good' Poles and 'Bad' Poles
Lecture 26 - Signal Flow Graph with Transfer Functions
Lecture 27 - s-Domain and t-Domain
Lecture 28 - Second-Order System Response in s-Domain
Lecture 29 - Integral Feedback
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Lecture 30 - Root-Locus Method Lecture 31 - Root-Locus Rules Lecture 32 - Asymptotes of Root Locus Lecture 33 - Routh Array Lecture 34 - Singular Cases Lecture 35 - Closed Loop Poles Lecture 36 - Controller in the Forwarded Path Lecture 37 - Mapping of Control in the Complex-Plane Lecture 38 - Encirclement by a Curve Lecture 39 - Nyquist Criterion Lecture 40 - Application of the Nyquist Criterion Lecture 41 - Polar Plot and Bode Plots Lecture 42 - Logarithmic Scale for Frequency Lecture 43 - 'Asymptotic' DB Gain Lecture 44 - Compensating Network Lecture 45 - Nichols' Chart Lecture 46 - Time Domain Methods of Analysis and Design Lecture 47 - State-Variable Equations