Mindluster Platform

About the course Control Systems CS

A control system manages, commands, directs, or regulates the behavior of other devices or systems using control loops. It can range from a single home heating controller using a thermostat controlling a domestic boiler to large industrial control systems which are used for controlling processes or machines.

Marketing Category's Courses

Course Lesson(79)

Lesson 1 : **Control systems | Open loop Closed Loop | Introduction | Lec 1**

Lesson 2 : **Control systems | Advantages Disadvantages | OLCS CLCS | Lec 2**

Lesson 3 : **Laplace Transform | Control Systems | Lec 3**

Lesson 4 : **Transfer Function | Definition | Control Systems | Lec 4**

Lesson 5 : **Transfer Function | Properties | Control Systems | Lec 5**

Lesson 6 : **Closed Loop Transfer Function | Control Systems | Lec 6**

Lesson 7 : **Test Signals | Solving Differential equation | Control Systems | Lec 7**

Lesson 8 : **Block Diagram | Mason s Gain | Control Systems | Lec 8**

Lesson 9 : **Signal Flow Graph | SFG | Terminology | Control Systems | Lec 9**

Lesson 10 : **Signal Flow Graph | SFG | Examples | Control Systems | Lec 10**

Lesson 11 : **Block diagram examples | Control Systems | Lec 11**

Lesson 12 : **Transfer Function | Block Diagram SFG | Control Systems | Lec 12**

Lesson 13 : **Time Response | Transient Steady State | Control Systems | Lec 13**

Lesson 14 : **1st Order System | Time Response | Control Systems | Lec 14**

Lesson 15 : **Impulse Response of 1st Order System | Control Systems | Lec 15**

Lesson 16 : **Step Response of 1st Order System | Control Systems | Lec 16**

Lesson 17 : **Sinusoidal Response for LTI System | Control Systems | Lec 17**

Lesson 18 : **Time Response of 2nd Order System | Control Systems | Lec 18**

Lesson 19 : **Damping Ratio | 2nd order System | Control Systems | Lec 19**

Lesson 20 : **Damping Ratio Less than 1 | 2nd order System | Control Systems | Lec 21**

Lesson 21 : **Zero Damping Ratio | 2nd order System | Control Systems | Lec 20**

Lesson 22 : **Critical Over damped systems | 2nd order System | Control Systems | Lec 22**

Lesson 23 : **Comparison of Control Systems | Frequency of oscillations | Lec 23**

Lesson 24 : **Unit step input for 2nd order system | Control Systems | Lec 24**

Lesson 25 : **Time response Specifications | Delay Rise Peak time | Control System | Lec 25**

Lesson 26 :
Time response Specifications | Peak overshoot Settling time Time period | Control systems | Lec 26

Lesson 27 : **Unit step response of System | Example 1 | Control Systems | Lec 27**

Lesson 28 : **Unit step response of System | Example 2 | Control Systems | Lec 28**

Lesson 29 : **Steady State Error | SSE | | Control systems | Lec 29**

Lesson 30 : **Steady State Error | SSE | Type of System | | Control systems | Lec 30**

Lesson 31 : **Steady State Error | Types of SSE | Control Systems | Lec 31**

Lesson 32 : **Steady State Error | Examples | Control Systems | Lec 32**

Lesson 33 : **Steady State Error | Examples | Unity feedback system | Control Systems | Lec 33**

Lesson 34 : **Steady State Error | OLTF | Examples | Control Systems | Lec 34**

Lesson 35 : **Steady State Error | 1st order system | Examples | Control Systems | Lec 35**

Lesson 36 : **Percentage Overshoot | Examples | Control Systems | Lec 36**

Lesson 37 : **Steady State Error | Non unity feedback system | Control Systems | Lec 37**

Lesson 38 : **Steady State Error | Unit step input | | Control Systems | Lec 38**

Lesson 39 : **2nd order system | Unit step input | Control Systems | Lec 39**

Lesson 40 : **Unity feedback System | Example | Control Systems | Lec 40**

Lesson 41 : **2nd order system | Step response | Control Systems | Lec 41**

Lesson 42 : **Stability | BIBO | Control Systems | Lec 42**

Lesson 43 : **RH criteria | Closed loop Stability | Control Systems | Lec 43**

Lesson 44 : **RH criteria | Closed loop Stability | Control Systems | Lec 44**

Lesson 45 : **RH criteria | Stability | Example | Control Systems | Lec 45**

Lesson 46 : **RH Criteria | Row of Zeros ROZ | Control Systems | Lec 46**

Lesson 47 : **RH Criteria | Repeated Row of Zeros ROZ | Control Systems | Lec 47**

Lesson 48 : **RH criteria | S plane | Example | Control Systems | Lec 48**

Lesson 49 : **RH criteria | S plane | Examples | Control Systems | Lec 49**

Lesson 50 : **Stability of a system | Conditional K | Example | Control Systems | Lec 50**

Lesson 51 : **Stability of a system | Frequency of Oscillations | Example | Control Systems | Lec 51**

Lesson 52 : **Stability of a system | Marginally stable | Example | Control Systems | Lec 52**

Lesson 53 : **Stability of a system | Range K | RH table | Control Systems | Lec 53**

Lesson 54 : **Stability of a system | CE | Range K | SFG RH Table | Control Systems | Lec 54**

Lesson 55 : **Relative stability | S plane | Control Systems | Lec 55**

Lesson 56 : **Root locus in Control system | Introduction | Lec 56**

Lesson 57 : **Root locus in Control system | Poles Zeros relation O L T F C L T F | Lec 57**

Lesson 58 : **Root locus | Angle magnitude | Control Systems | Lec 58**

Lesson 59 : **Root locus | Construction rules | Control Systems | Lec 59**

Lesson 60 : **Root locus | Asymptotes | Control Systems | Lec 60**

Lesson 61 : **Root locus | Centroid | Control Systems | Lec 61**

Lesson 62 : **Root locus | Break points | Control Systems | Lec 62**

Lesson 63 : **Root locus | Intersection with imaginary axis | Control Systems | Lec 63**

Lesson 64 : **Root locus | Angle of arrival Departure | Control Systems | Lec 64**

Lesson 65 : **Root locus | How to Draw | Example | Control Systems | Lec 65**

Lesson 66 : **Root locus | How to Draw | Example | Control Systems | Lec 66**

Lesson 67 : **Root locus | How to Draw | Example | Control Systems | Lec 67**

Lesson 68 : **Root Locus | System stability | Example | Control Systems | Lec 68**

Lesson 69 : **Root Locus | Stability | Examples | Control Systems | Lec 69**

Lesson 70 : **Root Locus | Point lies on root locus | Control Systems | Lec 70**

Lesson 71 : **Root Locus | Find O L T F | Example | Control Systems | Lec 71**

Lesson 72 : **Root Locus | Angle of Arrival for O L T F | Example | Control Systems | Lec 72**

Lesson 73 : **Root Locus | Angle of Arrival | Example | Control Systems | Lec 73**

Lesson 74 : **Bode plot | Introduction | Control Systems | Lec 74**

Lesson 75 : **Bode plot | How to draw | Example | Control Systems | Lec 75**

Lesson 76 : **Bode plot | Poles at origin | Example | Control Systems | Lec 76**

Lesson 77 : **Bode plot | Zeroes at origin | Example | Control Systems | Lec 77**

Lesson 78 : **Bode plot | Finite poles Zeroes | Control Systems | Lec 78**

Lesson 79 : **Bode Plot | finite poles zeroes | Examples | | Control Systems | Lec 79**

Related courses

How To Start Social Media Marketin

Search Engine Optimization

Digital Strategy Brand Marketing Workshop

Marketing Automation

YouTube Marketing Training

Google Adwords Training

for Business Contact
business@mindluster.com