

Instructional videos for various concepts in Control Systems

1. Nyquist Plots: <https://www.youtube.com/watch?v=zZbRDfJ4m8w>
2. Nyquist Stability Criterion: <https://www.youtube.com/watch?v=aBfcvMPtJxY>
3. Bode Plot: <https://www.youtube.com/watch?v=X4rFH3ARJP4>
4. Sensitivity: <https://www.youtube.com/watch?v=j7IHQ-k6B4>
5. Effects of Feedback:
https://www.youtube.com/watch?v=BJFyyqpdNg4&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=5
6. Mathematical Models of Control Systems:
https://www.youtube.com/watch?v=ZAolhtZsRX8&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=6
7. Translational Mechanical Systems:
https://www.youtube.com/watch?v=GHzyUCbrhXE&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=8
8. Rotational Mechanical Systems:
https://www.youtube.com/watch?v=fUqjT9zNSNU&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=9
9. Routh Stability Criterion:
https://www.youtube.com/watch?v=MRyICw3eOJs&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=45
10. Introduction to State Space Analysis:
https://www.youtube.com/watch?v=MRyICw3eOJs&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=45
11. State Model:
https://www.youtube.com/watch?v=DSvBXXnZv34&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=88
12. State Transition Matrix: https://www.youtube.com/watch?v=vr2kQpRb-QI&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=89
13. Introduction to Compensators: https://www.youtube.com/watch?v=-S2XckLOiO8&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=72
14. Lead Compensator:
https://www.youtube.com/watch?v=QYNJC9EhxIc&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=73
15. Lag Compensator:
https://www.youtube.com/watch?v=4QBEC2ku6ws&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=75
16. Lag Lead Compensator: https://www.youtube.com/watch?v=d-iPshIZS_I&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=77
17. Derivative Controller:
https://www.youtube.com/watch?v=uL2_yBZZ6Qg&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=78
18. Integral Controller:
https://www.youtube.com/watch?v=MwTFwK1OeCc&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=79
19. Proportional Derivative Controller:
https://www.youtube.com/watch?v=MaFxKVOnStg&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=80
20. Proportional Integral Controller:
https://www.youtube.com/watch?v=IVQxEwxVqgk&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=82

21. Proportional Integral Derivative Controller:

https://www.youtube.com/watch?v=R8ldRXmqhMo&list=PLWPirh4EWFpGpH_Rb6Q4iQ6vGGRA6MORZ&index=84

The Above video links are for illustrative purpose only. They are not replacements for the text books but an aid for understanding