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~~Discrete control #1: Introduction and  
overview Digital control 15: Controller design  
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Digital Control System: Controller designing  
based on root locus method *Digital control 22:  
Z-plane specifications, Part 3*

~~Digital control 17: Example of digital controller  
design by emulation~~ **Lecture 1: Introduction  
to Digital Control System Hardware Demo of a**

**Digital PID Controller** *Root Locus for  
Discrete Systems I: Introduction, 11/5/2014*

~~Introduction Control System Design 1/6  
Criterion for Stability in the z-plane,~~

*9/8/2016 MatLab: PID Example Example: Design*

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*PID Controller Root locus solved example* **What is DIGITAL CONTROL? What does DIGITAL CONTROL mean? DIGITAL CONTROL meaning** \u0026

**explanation** ~~Digital Control — Stability Methods — Jury's Test Simulink Introduction (Control Systems Focus and PID)~~ A real control system - how to start designing Analog and Digital Control System Design Transfer Function, State Space, and Algebraic Methods Digital Control System: Digital controller based on R Locus Matlab Simulation Digital control 9: Overview of discrete-time systems and signals *Digital control 10: Continuous-time models of discrete-time*

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M. Sami Fadali, Antonio Visioli, in Digital Control Engineering, 2009. The designer of a digital control system must be mindful of the fact that the control algorithm is implemented as a software program that forms part of the control loop. Successful practical implementation of digital controllers requires careful attention to several hardware and software requirements.

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in control algorithms for computation speed  
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Time response of discrete systems. Transient and steady state responses; Time response parameters of a prototype second order system; Appendix-4; Design of sampled data control systems. Root locus method; Controller design using root locus; Root locus based controller design using MATLAB; Nyquist stability criteria; Bode plot; Lead compensator ...

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Depending on the requirements, a digital control system can take the form of a microcontroller to an ASIC to a standard desktop computer. Since a digital computer is a discrete system, the Laplace transform is replaced with the Z-transform. Since a digital computer has finite precision, extra care is needed to ensure the error in coefficients, analog-to-digital conversion, digital-to-analog co

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