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DiscreteTimeControlSystems
Most important case: continuous-time systems controlled by a digital computer with interfaces (“Discrete-Time Control” and “Digital Control” synonyms) Such a discrete-time control system consists of four major parts: 1 The Plant which is a continuous-time dynamic system 2 The Analog-to-Digital Converter (ADC)
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EE 680: Digital Control Systems
1 Introduction to Discrete-Time Control Systems: Ch 1 2-3 Discrete-Time Systems and z-Transform Properties of z-Transform Difference Equations

and their Solution Control Systems Representation in Simulation Diagrams and Signal Flow Graphs Transfer Functions State …

DISCRETE-TIME SYSTEMS AND DIGITAL CONTROLLERS

The discrete-time control sequence uk is then transfor-med to a continuous-time control signal uH(t) using a D/A (digital-to-analog) transformer Typically the D/A transformer generates a piecewise constant control signal the solution of a linear differential equation by the tra-

Discrete-time Signals and Systems - MIT OpenCourseWare

Digital simulation is an inherently discrete-time operation Furthermore, almost all fundamental ideas of signals and systems can be taught using discrete-time systems Modularity and multiple representations , for ex ample, aid the design of discrete-time (or continuous-time) systems Simi larly, the ideas for modes, poles, control, and

CONTROLTHEORY,TSRT09, TSRT06 Exercises&solutions

Starred (∗) exercises deals with discrete-time systems and are optional 1 Introduction 11 Consider the linear feedback control system given by the figure below Σ G(s) −F(s) Show that if the small gain theorem (Swe: l˚agf¨orst ¨arkningssatsen) is fulfilled

Solutions - ETH Z

Sample Examination Digital Control Systems Page 3 Solution 1 a) The diagram is shown in Figure 2 − r(t) = 0 AAF ADC µP DAC Plant y(t) d(t) n(t) Figure 2: Discrete-time control system b) It is generally advisable to have the crossover frequency of the loop gain centered between

discretetime signals systems - TechTeach

Discrete-time signals and systems By Finn Haugen, TechTeach February 17 2005 Whenever a computer is used in measurement, signal processing or control applications, the data (as seen from the computer) and systems involved are naturally discrete-time because a computer executes program code at discrete points of time Theory of discrete-time

Politecnico di Torino, Short Course on: Optimal Control …

The flnal time T will be usually called the horizon of the problem: if T < +1 we speak of flnite horizon problem, if T = +1 we speak of inflnite horizon problem Then there are two main possibilities: † T = [t0;T]\N, ie the discrete time case The name \discrete" may come from the fact that, as a topological subspace of R, T is endowed

ME 433 – STATE SPACE CONTROL

Discrete-time and continuous-time systems Hamilton-Jacobi-Bellman Equation - Optimal Estimation/Kalman Filtering Discrete-time and continuous-time systems Linear Quadratic Gaussian Control (LQG) ME 433 - State Space Control 6 Modern Control • Books: – B Friedland, “Control System Design: An Introduction to State-Space Methods,”

ECE452/552 HW #3 SOLUTION

ECE452/552 HW #3 SOLUTION Problems from Ogata, “Discrete-Time Control Systems” 2nd ed From pages 167-169 1) B-3-11 (plot analytical solution together with the Matlab approach solution)

Discrete-Time Signals and Systems

PreTeX, Inc Oppenheim book July 14, 2009 8:10 2 Discrete-Time Signals and Systems 20 INTRODUCTION The term signal is generally applied to something that conveys information Signals may, for example, convey information about the state or behavior of a physical system

Ben M. Chen Associate Professor Department of Electrical …

8 Prepared by Ben M Chen 14 Modeling of a physical system A simple mechanical system By the well-known Newton’s Law of motion: f = m a,

where f is the total force applied to an object with a mass m and a is the acceleration, we have A cruise-control system

Full file at http://testbankonline.eu/Solution-manual-for ...

Full file at http://testbankonlineeu/Solution-manual-for-Discrete-Time-Control-Systems-2nd-edition-by-Katsuhiko-Ogata

ECE452/552

Problems from Ogata, “Discrete-Time Control Systems” 2nd ed From pages 70 -73 1) B-2-1 2) B-2-7 Computational solution with MATLAB using difference equation 2) Computational solution with MATLAB using the ‘filter’ command 3) analytical solution derived above % Ogata B-2-17

Lewis ffirs.tex V1 - 10/19/2011 5:03pm Page i

13 Numerical Solution Methods / 15 Problems / 15 2 OPTIMAL CONTROL OF DISCRETE-TIME SYSTEMS 19 21 Solution of the General Discrete-Time Optimization Problem / 19 22 Discrete-Time Linear Quadratic Regulator / 32 23 Digital Control of Continuous-Time Systems / 53 24 Steady-State Closed-Loop Control and Suboptimal Feedback / 65

Discrete-Time Equivalents To Continuous-Time Systems

The first approach is to derive a discrete-time equivalent of the plant and then design a discrete-time controller directly to control the discretized plant This approach is discussed in section 3 The other and more traditional approach to designing discrete-time control …