Discrete Time Control Systems 2nd Ogata

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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). 3 The Controller (µP), a microprocessor with a "real-time" OS. 4 The Digital-to-Analog Converter (DAC). 3 + ? r(t) e(t) ADC µP DAC u(t) Plant ? ? y(t) 4

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Notes for Discrete-Time Control Systems (ECE-520) Fall 2010 by R. Throne The major sources for these notes are † Modern Control Systems, by Brogan, Prentice-Hall, 1991. † Discrete-Time Control Systems, by Ogata. Prentice-Hall, 1995. † Computer Controlled Systems, by "Astr˝om and Wittenmark. Prentice-Hall, 1997.

Notes for Discrete-Time Control Systems (ECE-520) Fall 2010
First, digital computers are, by design, discrete-time devices, so discrete- time signals and systems includes digital computers. Second, almost all the important ideas in discrete-time systems apply equally to continuous- time systems. Alas, even discrete-time systems are too diverse for one method of analy sis.

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The time interval between two discrete instants is taken to be sufficiently short that the data for the time between them can be approximated by simple interpolation. Discrete-time control systems differ from continuous-time control systems in that signals for a discrete-time control system are in sampled-data form or in digital form.

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(available) at all times. A typical continuous time control system is shown in Figure below. (Closed loop continuous-time control system) Discrete time Control System: Discrete time control systems are control systems in which one or more variables can change only at discrete instants of time. These instants, which may be denoted by kT(k=0,1,2,…)

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