Discrete-Time Systems 5

The earliest control loops were analog and were implemented using mechanical, electronic, or hydraulic circuits. As a result, analog control techniques predominated through the 1960s. Even today, analog electronic control circuits can sometimes still be the cheapest, easiest solution (Problem 3.6). Nonetheless, control is now almost always implemented digitally, for reasons of flexibility: very complicated control algorithms are easily programmed (and reprogrammed!), and performance is easy to assess. We thus introduce digital signals and controllers, focusing on the effects of discretizing time. A computer, of course, also uses discrete state variables. Mostly, we will assume that this state discretization is at a fine enough scale that a continuous approximation suffices.[1] Chapter 12 discusses discrete-state systems with a small number of states (even two).

A second, less obvious motivation for discussing discrete-time dynamics is that advanced control algorithms such as those used in optimal and stochastic control are easier to present and understand in their discrete form. The basic point is that continuous functions are elements of infinite-dimensional vector spaces, whereas discrete functions live in finite-dimensional spaces. Finite-dimensional spaces are much simpler to work with.

Our plan will be as follows: First, we discuss how to turn a continuous-time signal into a discrete-time signal (Section 5.1). There are subtleties. The easiest approach, *sampling*, records the value of the continuous signal periodically. The danger is that we do not know explicitly what the signal does in between samples, and, indeed, the unobserved behavior may be completely different from a naive interpolation between measurements, a phenomena known as *aliasing*. Because this subject touches on issues of practical implementation, we will discuss more technical details than normal.

We then introduce mathematical tools for analyzing discrete-time dynamical systems (Section 5.2). In the frequency domain, we introduce the Z-transform, a discrete analog of the Laplace transform. In the time domain, we introduce finite impulse response (FIR) and infinite impulse response (IIR) filters, which implement using different approaches the digital equivalent of analog filters (low pass, high pass, bandpass, and the like).

With the appropriate tools in hand, we discuss how to discretize continuous-time dynamical systems (Section 5.3). If a continuous system is fed the staircase-like signal that is output from a digital controller, and if the continuous output is then sampled,

[1] Section 5.1.2 briefly discusses state quantization.

Discretetime Systems An Introduction To The Theory

A. K. Mahalanabis

Discretetime Systems An Introduction To The Theory:

Discrete Time Systems Mario Alberto Jordán,2011-04-26 Discrete Time Systems comprehend an important and broad research field The consolidation of digital based computational means in the present pushes a technological tool into the field with a tremendous impact in areas like Control Signal Processing Communications System Modelling and related Applications This book attempts to give a scope in the wide area of Discrete Time Systems Their contents are grouped conveniently in sections according to significant areas namely Filtering Fixed and Adaptive Control Systems Stability Problems and Miscellaneous Applications We think that the contribution of the book enlarges the field of the Discrete Time Systems with signification in the present state of the art Despite the vertiginous advance in the field we also believe that the topics described here allow us also to look through some main tendencies in the next years in the research area

Discrete-time systems Herbert Freeman,1965 *Introduction to Mathematical Systems Theory* Christiaan Heij,André C.M. Ran,Frederik van Schagen,2021-02-17 This book provides an introduction to the theory of linear systems and control for students in business mathematics econometrics computer science and engineering The focus is on discrete time systems which are the most relevant in business applications as opposed to continuous time systems requiring less mathematical preliminaries The subjects treated are among the central topics of deterministic linear system theory controllability observability realization theory stability and stabilization by feedback LQ optimal control theory Kalman filtering and LQC control of stochastic systems are also discussed as are modeling time series analysis and model specification along with model validation This second edition has been updated and slightly expanded In addition supplementary material containing the exercises is now available on the Springer Link s book website **Theory and Application of Digital Control** A. K. Mahalanabis,2014-05-20 Theory and Application of Digital Control contains the proceedings of the IFAC Symposium held at New Delhi India on January 5 7 1982 This book particularly presents the texts of the five plenary talks and the 110 papers of the symposium This book organizes the papers into 109 chapters with nearly one third of the papers focus on digital control particularly software and hardware of control using microcomputers computer aided design and adaptive control and modeling for digital control Another set of papers deal with several applications of digital control techniques in solving interesting problems of socio economic systems electrical power systems bio systems and artificial satellites The reader will benefit hugely from the topics in this book that span several important theoretical and applied areas of the fast changing topic of digital control **Nonlinear Dynamical Systems and Control** Wassim M. Haddad,VijaySekhar Chellaboina,2008-02-17 The application of dynamical systems has crossed interdisciplinary boundaries from chemistry to biochemistry to chemical kinetics and beyond This book presents and develops a complete and thorough treatment of stability analysis and control design of nonlinear dynamical systems with an emphasis on Lyapunov based methods Pure and Applied Science Books, 1876-1982 ,1982 Over 220 000 entries representing some 56 000 Library of Congress subject

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Rogers,1977   **Design Methods of Control Systems** D. Franke,F. Kraus,2014-05-23 These Proceedings contain a selection of papers presented at the first IFAC Symposium on Design Methods of Control Systems The volume contains three plenary papers and 97 technical papers the latter classified under 15 section headings as listed in the contents   **CASYS** Daniel M. Dubois,2001

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