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exploratory problems, and to realistic
comprehensive ...

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problems. Tang and Cheke[2008]studied
integrated pest control problems using
both continuous and discrete host-

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parasitoid models. Jang and Yu[2012]proposed a simple discrete time host-parasitoid model and derived an optimal control model using a chemical as a control for the hosts. They conclude that applying a chemical to eliminate the hosts directly may be a more effective control strategy than using the

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Discrete time optimal control applied to pest control problems

In fact our discrete-time problems are more general than typical continuous-time problems in one respect: the dimensionality of the state and control vectors can vary with time. This feature is important in multistage modeling,

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where the decision structure in one period need not be the same as in another.

**Generalized Linear-Quadratic
Problems of Deterministic and ...**

This book was originally published by Academic Press in 1978, and republished by Athena Scientific in 1996 in paperback form. It can be purchased

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from Athena Scientific or it can be freely downloaded in scanned form (330 pages, about 20 Megs).. The book is a comprehensive and theoretically sound treatment of the mathematical foundations of stochastic optimal control of discrete-time systems ...

Stochastic Optimal Control: The

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Discrete-Time Case

TU Berlin Discrete-Time Control Systems
12 Nyquist Criterion Well-known stability test for continuous-time systems. To determine the stability of the closed-loop system when the open-loop system is given. Can be reformulated to handle discrete-time systems. Consider the discrete-time system: $H_{cl}(z) = Y(z) U$

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$c(z) = H(z) 1+ H(z)$ with the ...

Analysis of Discrete-Time Systems

Discrete control is one of the major subsystems in the industrial automation and needs of the manufacturing sectors are the primary driver for the growth and maturity. A dedicated chapter is provided to detail the technology behind

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these products. The discrete control and automation have started the journey with the sensors and relays wired to realize the logic.

Discrete Control - an overview | ScienceDirect Topics

Digital simulation is an inherently discrete-time operation. Furthermore,

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almost all fundamental ideas of signals and systems can be taught using discrete-time systems. Modularity and multiple representations, for example, aid the design of discrete-time (or continuous-time) systems. Similarly, the ideas for modes, poles, control, and ...

Discrete-time Signals and Systems -

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Now, it is useful to gain familiarity with some of these mathematical tools successfully used in control problems. One interesting tool is that of Optimal Control. In this blog post, I'm going to cover the use of Dynamic Programming to tackle deterministic Discrete-Time Linear Control problems for the case of

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bringing the state to ...

**Intro to Dynamic Programming
Based Discrete Optimal Control**

We describe locally-convergent algorithms for discrete-time optimal control problems which are amenable to multiprocessor implementation. Parallelism is achieved both through

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concurrent evaluation of the component
functions and their derivatives, and
through the use of a parallel band solver
which solves a linear

Solution of discrete-time optimal control problems on ...

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Katsuhiko Ogata**

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Reference of Topics --Ways to Use This
Book --Single-Block Models and Their
Responses --Preview --Transfer
Functions --Residues and Unit-Delta
(Impulse) Response --Time Response
Due to Distinct Poles --Time Response
Due to ...

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**Discrete-time control problems
using MATLAB and the ...**

Optimal control theory is a branch of mathematical optimization that deals with finding a control for a dynamical system over a period of time such that an objective function is optimized. It has numerous applications in both science and engineering. For example, the

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dynamical system might be a spacecraft with controls corresponding to rocket thrusters, and the objective might be to reach the ...

Optimal control - Wikipedia

Bellman showed that a dynamic optimization problem in discrete time can be stated in a recursive, step-by-

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step form known as backward induction by writing down the relationship between the value function in one period and the value function in the next period. The relationship between these two value functions is called the "Bellman equation".

Bellman equation - Wikipedia

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MATLAB and the control system toolbox..
[Joe H Chow; Dean K Fredrick; Nicholas
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Contacts Search for a Library. Create ...

Discrete-time control problems

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Discrete-time optimal control. Most of the problems defined above have discrete-time counterparts. These formulations are useful when the dynamics are discrete (for example, a multistage system), or when dealing with computer controlled systems. In discrete-time, the dynamics can be

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expressed as a difference equation:

Optimal control - Scholarpedia

Some research problems of fuzzy control and discrete-time systems, such as adaptive control, robustness issue, stability analysis, and time-delay systems, are concerned and introduced for they are both theoretically

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challenging and practically meaningful.

In Section 3, NN control methods for
discrete-time systems are briefly
reviewed.

A Review of Fuzzy Logic and Neural Network Based ...

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Sample time: 0.02 seconds Discrete-

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time transfer function. Root locus in the z-Plane. Recall from the Digital Control Tutorial page, the MATLAB function `zgrid` can be used to find an acceptable region of the discrete root-locus that gives the desired gain (K).

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