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Problem 1 - State
Space Analysis -
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Basic Control Actions

What is Control
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Transfer Functions

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Part 1 Control

Systems Lectures -

Transfer Functions

Hardware Demo of a
Digital PID Controller

Proportional-Integral
Controller: Reducing

the steady state error
using a PI controller,

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LQR

Matlab/simulink

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Engineering optimal
control

! Hamilton-
Jacobi equation!

What is the use of PI
controller in control
systems

Intro to Control - 6.3
State-Space Model to
Transfer Function

Intro to Control - 11.1
Steady State Error
(with Proportional
Control) Example:

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Design PID Controller

Simple Examples of
PID Control

A Simple Feedback
Control Example

System Dynamics

and Control: Module

4b - Modeling

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1.1 Introduction to
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approach, and state-
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analysis and design
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The text provides a gradual development of control theory, shows how to solve all computational problems with MATLAB, and avoids highly mathematical arguments.

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Engineering 5th

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Katsuhiko

Ogata Many examples

are shown with

detailed step-by-step

solutions. Different

types of examples

(hand calculations /

MATLAB) of different

difficulties. Very

dense material.

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Katsuhiko Ogata is a professor of engineering who was born in Tokyo, Japan ; on January 6 of 1925. He earned a Bachelor degree in Mechanical Engineering from the University of Tokyo in

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of this book is as
follows: Chapter 1
presents an
introduction to
control systems. ...
Katsuhiko Ogata x
Preface. 1

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INTRODUCTION
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today are classical
control theory (also
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