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~~Demo of a Digital PID~~

~~Controller~~ Ball and

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Professor Kostas J

Kyriakopoulos Lead

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2 experiment no: cs i
/1. title : familiarization
with matlab control
system tool box,

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ELEC3114: Control
Systems Lab Manual

Created by Dr. Arash
Khatamianfar. First

edition in Term 2,
2019, second edition

in T2, 2020 Page | 1

Lab Experiment 3:

Flexible Joint Robotic
Arm Modelling

Learning Objectives

After completing both
the Pre-Lab and lab

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exercises in this lab experiment, you should be able to

- derive a mathematical model of a flexible joint robotic arm using its mechanical equations of motion,
- analyse the movement of a robotic arm exhibiting flexibility in its joint

ELEC3114 Lab

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Experiment 3 -
2020.pdf - ELEC3114
Control ...

9 Lab Experiment 1:
Using MATLAB for
Control Systems
CISE 302 Lab Manual
Page 9 Matrices A is
an $m \times n$ matrix. A
Matrix array is two
-dimensional, having
both multiple rows
and multiple columns,
similar to vector

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arrays: it begins with
[, and end with]

CISE 302 Linear
Control Systems
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CISE 302 Lab Manual
Page 4 CISE 302
Linear Control
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Experiment 1: Using
MATLAB for Control
Systems Objectives:
This lab provides an

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introduction to
MATLAB in the first
part. The lab also
provides tutorial of
polynomials, script
writing and
programming aspect
of MATLAB from
control systems view
point. List of
Equipment/Software

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September 10, 2013

EE380 (Control Lab)

IITK Lab Manual and

inputs the values of

the controller□s

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parameters into a convenient in-terface provided on the control system. The control system itself has been built by someone else and is almost a black box to the student. Pro: This way, the student becomes acquainted with the various control ex-

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Lab Manual for
EE380 (Control Lab) -
IIT Kanpur

This manual provides
the operating
instructions in a
simplified form and
ads ELEC372
students le through a
prescribed set of
experiments aimed at
demonstrating the
basic principles of
feedback control

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systems. It is essential that students read these preliminary sections in order to understand the purpose of each experiment.

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electronic controls for
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companies, and end
users from around the
world.

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experiment specifying details like Aim, Apparatus Used, Theory, Experiment, Graphs, Calculations, and the Precautions.

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Before the lab begins, students are required to read and

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understand the

Control System Laboratory Manual for the

hardware and

software description.

In addition, it is

recommended that

the students complete

the following pre-lab

work. The Quanser dc-

servomotor in the

control systems

laboratory has the

following model (with

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Electrical and

Computer

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EXPERIMENT 3

Mathematical

Modeling of Physical

Systems Objective: 1.

To understand the

role of mathematical

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models of physical systems in design and analysis of control systems. 2. To learn MATLAB functions in solving and simulating such models.

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standard in controls

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teaching and
research. Modeling &
controls lie at the core
of emerging
technological
breakthroughs. From
drones to reusable
rockets to self-driving
vehicles, the
fundamentals of
modeling & control
are a critical skill for
engineers to compete
and innovate.

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Solutions - Quanser

□discrete-step□ the whole program (i.e. control-system in this case) will be executed, I/O data will be exchanged and the decision making will be done inside DS1104. □ Type $T_s=1e-4$ in the Matlab prompt. Press

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CTRL+B to build the control-system in real-time now. Refer to Fig 1.6, note the sequence: 1) Compilation of C-code that is generated by

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Classical Control

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SEM ECE) Page 8. 9.
CONTROL SYSTEM

LAB (EE-324-F)

EXPERIMENT - 2

AIM: - To study the
stepper motor and to
execute
microprocessor
computer based
control of the same by
changing number of
steps, the direction of
rotation and speed.

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HVAC was written to

help students

understand how to

install, troubleshoot

and repair electrical

parts of air-

conditioning, heating,

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and refrigeration systems. The author uses over 20 years of experience to simplify electrical theory, show the operations of motors and controls and teach various ...

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