98-1 Preliminary Syllabus, Da-Yeh Univ

Information

Title		Serial No. / ID	1808 / EEI 4248
Dept.		School System / Class	4 1
Lecturer		Full or Part-time	
Required / Credit	Optinal / 3	Graduate Class	Yes
Time / Place	( )56 / H371 ( )9 / H371	Language	Chinese

Introduction

This course is divided into two parts. One is to provide senior undergraduates and graduate students to obtain deeper understanding of various modern design technologies in state space. The classical approaches are then combined with optimization technique for real nonlinear physical systems. Part II is to provide students for intelligent modeling and stability-ensured optimal fuzzy control technologies. We emphasize the compensate effect for those approach will bring the better design results.

Outline

1. Mastering Matlab/Simulink;Physical system finding(IEL) (Oga-1)

2-3. Sliding Inverted-Wedge System and Linearization

4. Optimization-compensated   -locus design (Oga-4)

5. Optimization-compensated LQR design (Oga-7)

Quiz

6. Intelligent Control Concept (-1,11,12,13)

7. Mastering Matlab/Fuzzy Tool Box

8. Mamdani modeling (-14)

9. Generic intelligent controller(-14,15)

10. Final Exam.

Prerequisite

no