

# 16 30 31 Homework Assignment Mit Opencourseware

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## **16 30 31 Homework Assignment**

16.30/31 Homework Assignment #6

Goals: More on LQR; LQ servo; DOFB compensators; intro to LQ robustness 1. Consider the system  $\dot{x} = (A + \Delta I) x + Bu$ ,  $y = Cx$ , where  $\Delta$  is a  $2 \times 2$  matrix. (You may use Matlab ...

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16.30/31 Homework Assignment #5

Goals: Controllability and observability (part 2), full-state feedback, LQR, system zeros 1. For each state-space

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model, identify whether the system is observable, controllable, detectable, and/or stabilizable. Conclude whether each model is a minimal realization. (a)  $A = \begin{bmatrix} -1 & 3 \end{bmatrix}$ ,  $B = \dots$

## **16.30/31 Homework Assignment - MIT OpenCourseWare**

16.30/31 Homework Assignment #1  
Goals: Refresh skills for Matlab and classical analysis. 1. Sketch the root locus for the following systems, using the rules discussed in class and the lecture notes.

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## **16 30 31 Homework Assignment Mit Opencourseware | www ...**

16.30/31 October 15, 2010 Prof. J. P. How and Prof. E. Frazzoli Due: October 22, 2010 T.A. B. Luders 16.30/31 Homework Assignment #4 Goals: Modal analysis, transfer matrices, controllability and observability (part 1), linear system theory 1. Consider the system with two states, and the state-space model matrices given by:  $A = \begin{bmatrix} -6 & 1 \\ 1 & 1 \end{bmatrix}$ ,  $B = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ ,  $C = \begin{bmatrix} 1 & 1 \end{bmatrix}$

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## **16 30 31 Homework Assignment Mit Opencourseware**

16.30/31 September 25, 2010 Prof. J. P. How and Prof. E. Frazzoli Due: October 1, 2010 T.A. B. Luders 16.30/31 Homework Assignment #3 Goals: Classical lead/lag controller design; state space realizations Problems 8.16 and 8.18 removed due to copyright restrictions. Van de Vegte, John. Feedback Control Systems. 3rd ed. Prentice Hall, 1993.

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## **16.30/31 Homework Assignment - MIT OpenCourseWare**

16.31 Handout #10 Prof. J. P. How  
November 21, 2001 T.A. TBD Due:  
November 30, 2001 16.31 Homework  
Assignment #10 1. Consider the control  
of  $G(s) = \frac{1}{s(s+1)}$  using the model with  
 $y = x_1$  and  $\dot{x}_1 = x_2$ . (a) Design a full-  
state feedback controller that yields  
closed-loop poles with  $\omega_n = 3$  and  $\zeta$   
 $= 0.5$ .

## **16.31 Homework Assignment - dspace.mit.edu**

16.31 Handout #4 Prof. J. P. How  
September 14, 2007 T.A. TBD Due:  
September 21, 2007 16.31 Homework  
Assignment #2 1. The open loop transfer  
function of a closed-loop control system  
with unity negative gain feedback is  $K$   
 $G(s) = \frac{K}{s(s+2)(s^2+6s+36)}$  • Use  
Matlab to plot the root locus for this  
system

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## **Massachusetts Institute of ...**

MIT16\_30F10\_assn04 - 16.30V31 Prof J P  
How and Prof E Frazzoli T.A B Luders  
Due 16.30V31 Homework Assignment#4  
Goals Modal analysis transfer matrices

## **MIT16\_30F10\_assn04 - 16.30V31**

### **Prof J P How and Prof E ...**

16.30/31 Handout #1 Prof. J. P. How and  
Prof. E. Frazzoli September 10, 2010 T.A.  
B. Luders Due: September 17, 2010  
16.30/31 Homework Assignment #1  
Goals: Refresh skills for Matlab and  
classical analysis. 1. Sketch the root  
locus for the following systems, using  
the rules discussed in class and the  
lecture notes. (Concentrate on the real  
axis ...

## **MIT16\_30F10\_assn01 - 16.30V31**

### **Prof J P How and Prof E ...**

There will be 16 homework assignments  
during the semester - the material  
covered and due dates for these  
assignments are listed in the "Tentative  
Class Schedule." Your lowest homework

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score will be dropped. One problem will be graded from each assignment.

### **There will be 16 homework assignments during the semester ...**

16.30/31 October 22, 2010 Prof. J. P. How and Prof. E. Frazzoli Due: October 29, 2010 T.A. B. Luders 16.30/31 Homework Assignment #5 Goals: Controllability and observability (part 2), full-state feedback, LQR, system zeros 1. For each state-space model, identify whether the system is observable, controllable, detectable, and/or stabilizable.

### **MIT16\_30F10\_assn05 - 16.30\31 Prof J P How and Prof E ...**

HISTOLOGY Part 2: Labeling e-ASSIGNMENT 16-30. Identify the tissues shown in the following slides using the word bank. The figure labels indicate the question number and column to choose from (for example, "16-A" and "17-8" indicate that you will chose a word from column A for number 16 and one from



# Bookmark File PDF 16 30 31 Homework Assignment Mit OpenCourseWare column B for number 17).

## **HISTOLOGY Part 2: Labeling E- ASSIGNMENT 16-30. Ide ...**

16.31 Handout #1 Prof. J. P. How  
September 7, 2007 T.A. TBD Due:  
September 14, 2007 16.31 Homework  
Assignment #1 Goals: Refresh skills for  
Matlab and classical analysis. 1. (Root  
Locus Analysis) [FPE 3.32, page 159].  
Suppose that you are to design a unity  
gain feedback controller for a first order  
plant (see figure). A specific controller ...

## **16.31 Homework Assignment**

Math 18: Linear Algebra Lecture A00  
(Eggers) Winter 2020 Homework  
Assignments Note: There are two  
categories of homework. Written  
Assignments and Suggested Exercises..  
Suggested Exercises will not be turned  
in and graded; however, it is often the  
case that exam questions are based on  
textbook homework problems. It is  
highly recommended that you complete  
them by the corresponding due date.

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## **Math 18 Homework Assignments**

Before the books can be closed on 31 December 2019 so the financial results can be reported, there are several missing entries that must be posted to the general ledger. Dusty Fine Jewelers uses the perpetual inventory method. Purchased \$4,350 of merchandise; terms are 2/10, n/30 FOB shipping point. 10 Dec Paid \$120 freight on the 10 Dec purchase.

## **Assignment: Dusty Fine Jewelers Designs And Manufa ...**

Question: 140 20 56 16 30 Binary Search Tree Functions Using The Same Example Program As The Last Assignment, Implement The Following Methods: Int Count() // Returns A Count Of How Many Nodes Are In The Tree. Int Sum() // Returns The Sum Of The Values Stored In The Tree Nodes. Int Depth() // Returns The Maximum Depth Of The Tree (null Tree Counts As Zero Depth). ...

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## **Solved: 140 20 56 16 30 Binary Search Tree Functions Using ...**

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