

# Homework 2 Utah Ece

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### **Homework 2: Total Probability ... - my.ece.utah.edu**

2240 N. Cotter Homework 2 1. Determine whether each of the following circuits is valid or invalid. a) b) c) d) e) 2. Use

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Kirchhoff's laws to find  $i_1$  and  $v_2$ . 5 mA

### **ECE 3510 homework # 2 - Utah ECE**

ECE 1270 (3) Homework #2 UTAH ) Derive the expression for  $V_i$  containing not more than circuit parameters  $R_1$ ,  $v_a$ , and 6. Using the circuit shown in Problem #5, derive an expression for the power through  $R_2$ . The known values are  $a$ ,  $i_a$ ,  $V_a$ ,  $R_1$ ,  $R_2$  and  $R_3$   
V) 13 = -12 OR Summer 2010 .

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Homework #2 current transfer ratio of unity. ( $R_{EF} = 1\text{mA}$ , find  $I_O$  when  $V_o = 5\text{V}$ . Also, find the output resistance.  $I_S = 10\text{-}15\text{ A}$ ,  $\beta = 100$ , and  $V_A = 50\text{V}$ , design the  $i_o = 0.5\text{mA}$  at  $V_O = 2\text{V}$ . ,  $R$ , and  $V_{OMIN}$ . Also, find the actual value of  $I_O$  at  $V_h$  of the two current sources below. Let  $A = 100\text{V}$  and  $\beta = 100$ . pnp transistors having erly? What  $O$  changing from the ...

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### **ECE UT Austin - YouTube**

::Back:: Unless specified otherwise, problems come from:  
Feedback Control of Dynamic Systems, 4 th Ed. By Franklin,  
Powell, Emami-Naeini Note: Numbers refer to problems at the  
end of the chapter, Ex refers to exercises within the chapter.  
Homework is due by 5 pm. on due date.

### **Homework 2 Utah Ece**

CS 3130/ECE 3530: Probability and Statistics for Engineers Due  
Th 9/14 Homework 2: Total Probability, Independence, and  
Bayes' Rule Instructions: Submit a single R Markdown le (.Rmd)  
of your work on Canvas by 11:59pm on the due date. You may  
also submit diagrams, drawings, etc. as image les (.png, .jpg,  
.gif)|they

### **ECE 2210 / 00 homework # 2 - Utah ECE**

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ECE 3600 homework # 2 p.2 8. a) Find  $Z_1$ .  $I_T$  (54 8.j).mA  $I_1$   $I_2 = 45 / 200$  mA b) To make  $Z_1$  in the simplest way, what part(s) would you need? Just determine the needed part(s) from the list below and state why you

### **Homework #2 - University of Utah**

ECE3110 Homework #2 Fall 2011 4 6. Using the ideas embodied in the figure below, design a multiple-mirror circuit using power supplies of  $\pm 5V$  to create source currents of 0.4mA, and 0.8mA (currents shown below as  $I_{REF}$ ,  $I_1$ , and  $I_3$ ) and sink currents of 1mA, and 2mA (currents shown below as  $I_2$ , and  $I_4$ ).

### **2240 HOMEWORK #11 prob 2 solution N. Cotter F13**

Homework #2 Fall 2010 5 7. Using the ideas embodied in the figure below, design a multiple-mirror circuit using  $I_{REF} = 0.2$ mA and power supplies of  $\pm 5V$  to create source currents of 0.4mA, and 0.8mA (currents shown below as  $I_1$ , and  $I_3$ ) and sink currents

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of 1mA, and 2mA (currents shown below such as I<sub>2</sub>, and I<sub>4</sub>). Assume that the BJTs

### **Homework #2 - ece.utah.edu**

Lecture #0 Part 2 continues with the course overview and introduces communication systems and single-carrier transceivers for the spring 2014 course on real-time digital signal processing by Prof. ...

### **ECE3110 Homework #2 Fall 2011 - Utah ECE**

Homework #1 Fall 2010 2.2. An amplifier with an input resistance of 10k $\Omega$ , when driven by a current source of 1 $\mu$ A and a source resistance of 100k $\Omega$ , has a short-circuit output current of 10mA and an open-circuit

### **ECE 5324/6324: Antenna Theory and Design - Utah ECE**

Homework #2 Summer 2010 3.8. The op-amp operates in the

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linear mode. Using an appropriate model of the op amp, derive an expression for  $v_o$  in terms of not more than  $V_a$ ,  $V_s$ ,  $i_s$ ,  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$ . Note that the current source

### **ECE5340/6340: Homework 2**

ECE 3510 homework # 2 c Homework should be turned in to the 3510 homework locker by 5:00pm on the due date. Solutions will be posted in a glass case west of the ECE office.

### **Homework #2 - Utah ECE**

ECE 2210 / 00 homework # 2 a3 Homework solutions will be posted in a glass case west of the ECE office. Graded homework, labs and exams will be returned to a file cabinet in MEB 3305, filed by

### **Homework #1 - University of Utah**

ECE5340/6340: Homework 2 Write your section (ECE5340 or

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ECE6340) by your name. Turn in a printed copy containing the problem solutions, plots, and the code used to generate them. Remember to comment and format the code so is legible to the graders. ... [www.ece.utah.edu](http://www.ece.utah.edu). Created Date:

### **2240 Homework 2 - my.ece.utah.edu**

Subject: Image Created Date: 20081121143658-0700

### **2011-05-26 13:16:11 1/8 HW2 sol0001.pdf ... - my.eng.utah.edu**

Homework 11 (Due date: 03/11/2013) Probs. 20, 21 of the Typed Homework Assignment3 All of the homeworks due the last week (during the week of March 4 - 8th i.e. 6 problems) can be submitted on Monday after the Spring Break i.e. of March 18

### **Homework - Utah ECE**

Homework #2 Summer 2010 2, 4, 5. Derive an expression using



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the circuit in Problem #4 above for the power through R2 resistor. The known values are  $i_a, V_a, R_1$ , and  $R_2$ . 6. 7. Using the circuit shown in Problem #6, derive an expression for the power through R2. The known values are  $\alpha, i_a, V_a, R_1, R_2$  and  $R_3$ .

### **ECE 3600 homework # 2 - Utah ECE**

2240 HOMEWORK #11 prob 2 solution N. Cotter F13 EX:  
Compute the Laplace transform of the following functions by calculating the integral expression for the Laplace transform (step-by-step by hand): ...  $s+2$ . c) We set the lower limit of the integral to zero to account for the part of  $f(t)$  that is zero.

### **Homework #2 - eng.utah.edu**

Grading: The following is a tentative guideline and may undergo changes. A mid-term exam will count for 30%, the final exam will count for 40%, and assignments will count for 30% of the final

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grade.