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6.002 CIRCUITS ELECTRONICS

6002 Fall 2000 Lecture 9 2 Amp constructed using dependent source Superposition with dependent sources: one way tleave all dependent sources in; solve for one independent source at a ...

6.002 CIRCUITS AND ELECTRONICS

6002 CIRCUITS AND ELECTRONICS 2 Review Circuit Analysis Methods ! Circuit composition rules ! Node method - the workhorse of 6002 KCL at nodes using V 's referenced from ground KVL implicit in pattern ! KVL: KCL: VI 3 ! Introduction to linear circuits ! Properties of linearity ! The superposition tool for your toolkit ! The Thévenin method ! The Norton method Overview Let's start

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6002 CIRCUITS AND ELECTRONICS Introduction and Lumped Circuit Abstraction 6002 Fall 2000 Lecture 1 1 ADMINISTRIVIA Lecturer: Prof Anant

Agarwal Textbook: Agarwal and Lang (A&L) Readings are important! Handout no 3 Assignments — Homework exercises Labs Quizzes Final exam
6002 Fall 2000 Lecture 1 2 Two homework assignments can be missed (except HW11) Collaboration policy ...

QUIZ 2 - 6.002 Circuits and Electronics

QUIZ 2 - 6002 Circuits and Electronics April 23, 2019 Total Points: 120 Time Limit: 120 minutes $R = 16 \text{ k}\Omega$ and $L = 1 \text{ H}$, find an expression for $i(t)$ for $t \geq 0$ To do so, follow the steps below b) [4 points] Derive a second-order differential equation that describes the evolution of i - Write this in terms of i , R , C , and L Differential Equation 6 c) [6 points] Determine if the

6.002 Circuits and Electronics Final Exam December 15, 2004

6002 Circuits and Electronics Fall 2004 Final Exam Name: _____ (2B) The DeForest Logic Corp finds a copy of Fig 2, and - following a long tradition of copying others' circuits - decides to use the circuit, with values $R_L = 9 \text{ k}\Omega$ and $V_S = 10 \text{ V}$ Figure 3 shows a model for the particular transistor they select to implement the logic

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6.002 Circuits and Electronics Quiz #2

6002 Circuits and Electronics Fall 2004 Quiz #1 Name: _____ Problem 3 (25 Points) For the circuits below, please find expressions for the specified voltage over the indicated time ranges in terms of the circuit parameters Plot the waveform on the provided axes, ...

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Nonlinear Circuits 6002x CIRCUITS AND ELECTRONICS Reading Chap 41 - 43 2 ! Discretize matter " Lumped circuit abstraction m1 ! KVL, KCL, i-v m2 ! Composition rules m3 ! Node method m4 ! Superposition m5 ! Thévenin, Norton Review 3 ! Discretize value " Digital abstraction ! Subcircuits for given "switch" setting are linear! So, all 5 methods (m1 - m5) can be applied Use SR

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6002x CIRCUITS AND ELECTRONICS The Impedance Model !!! Reading: Section 133 from text 2 n Sinusoidal Steady State (SSS) Reading 131, 132 + - v v I V i sZt + - R C Review n Focus on sinusoids n Focus on steady state, only care about v P as v H dies away SSS 3 3 4 t v H total Review V p contains all the information we need: nightmare p p V V Amplitude of output cosine Phase sneak in

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6002x CIRCUITS AND ELECTRONICS Energy, CMOS Reading Section 114, 115 of A&L 2 V S +- R 1 C R 2 S 1 S 2 f T T T 1 = 1 + 2 = P C V S f = 2 Review S open Sclosed 2 1 t S closed Sopen 2 1 T 1 T 2 T Hypothetical example circuit 3 2 T T 2 T v IN f T 1 = Inverter v O v IN C V S R L R ON Review V S +- R L C R ON t Eqvt ckt On for T/2 Off for T/2 CV f R V P S L S 2 2 2 = + P STATIC P DYNAMIC 4

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6002x CIRCUITS AND ELECTRONICS Capacitors and First-Order Systems 2 Demo C A B 5V 5V A B C 5 0 5 0 5 0 Chapters 9 & 10 Motivation 2 5V 0V C A B 5V 5V A B C 5 0 5 0 5 0 Chapters 9 & 10 Expected Expect this, right? Motivation 4 The Capacitor G D S n-channel MOSFET symbol n-channel MOSFET s i l i c o n p 5 Ideal Linear Capacitor 6 Ideal Linear Capacitor i q = C v C q + - v ...

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1 Inside the Digital Gate 6002x CIRCUITS AND ELECTRONICS Reading: Chapter 6 of A&L

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6002x CIRCUITS AND ELECTRONICS Introduction and Lumped Circuit Abstraction 2 6002x is Exciting! What's behind this? 3 ...and this Chip photo of Intel's 22nm multicore processor codenamed Ivy Bridge Photograph "courtesy" of "Intel" Corp" 4! Prerequisites ! AP level course on electricity and magnetism; eg, MIT's 802 (check it out on MIT OpenCourseware) ! It is also useful to have a

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6002x CIRCUITS AND ELECTRONICS 2 2 Remember, our EECS playground Review Observe the lumped matter discipline LMD 3 3 Lumped circuit element + &" power consumed by element ="! Review i v vi 4 4 LMD allows us to create the lumped circuit abstraction Review +! -! R 1 R 2 R 3 V 5 5 KVL: For all loops KCL: For all nodes $\sum =0 j \nu j \sum =0 j i j$ Review Review Maxwell's equations

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6002x CIRCUITS AND ELECTRONICS Violating the Abstraction Barrier 2 Case 1: The Double Take 3 Case 1: The Double Take Problem "0" t "1" v O "0" t "1" v O Demo 1 1(a) DC case R v O v I 2 1(b) Step R v O v E v I v I 0V t 5V 5V t v E t=0 T 5V t =25V O v t=0 2T v O 2T 2T T T 2T 0 T 1 5V 0 5V 0 5V What's going on R v O v E v I T 2T 2 1 Question: So why did our circuits