



Alexandria University

Faculty of Engineering

Division of Communications & Electronics

EE 4E4 VLSI Modeling and Design Lab#1

Objectives

Upon the completion of this Lab, you should be able to:

1. Use L-edit software to lay out basic CMOS digital circuits,
2. Use T-spice software to analyze static and dynamic characteristics of CMOS digital circuits.

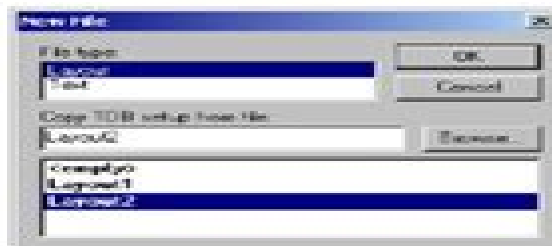
Requirements

You are required to draw the vertical and horizontal layouts for the basic CMOS inverter and compare between the two layouts in terms of the used area, power consumption, DC characteristics, and propagation delays. Both inverters should have the same dimensions.

The following sections provide the detailed procedures to draw the layout of the vertical CMOS inverter using L-edit.

Manual Layout

1. Copy the following files into your directory
Technology setup files for MOSIS/Orbit n-well 2.0 micron process.
(Technology
= SCNA, LAMBDA = 1.0 micron)
C:\canner\cd\83\samples\tech\mosis\morbn20.
2. Launch L-Edit
3. Create New File. Create new files by choosing **File > New**, which opens the **New File** dialog:



Vlsi Lab Manual Using Tanner Eda

F Rizvi



Vlsi Lab Manual Using Tanner Eda:

Microelectronics Education B. Courtois, N. Guillemot, G. Kamarinos, G. Stéhelin, 2013-03-09 This is the third edition of the European Workshop on Microelectronics Education EWME A steady state regime has now been reached An international community of university teachers is constituted they exchange their experience and their pedagogical tools They discuss the best ways to transfer the rapidly changing techniques to their students and to introduce them to the new physical and mathematical concepts and models for the innovative techniques devices circuits and design methods The number of abstracts submitted to EWME 2000 about one hundred enabled the scientific committee to proceed to a clear selection EWME is a European meeting Indeed authors from 20 different European countries contribute to this volume Nevertheless the participation of authors from Brazil Canada China New Zealand and USA shows that the workshop gradually attains an international dimension th The 20 century can be characterized as the century of electron The electron as an elementary particle was discovered by J J Thomson in 1897 and was rapidly used to transfer energy and information Thanks to electron universe and micro cosmos could be explored Electron became the omnipotent and omnipresent almost immaterial angel of our W orld This was made possible thanks to electronics and for the last 30 years to microelectronics Microelectronics not only modified and even radically transformed the industrial and the every day landscapes but it also led to the so called information revolution with which begins the 21 st century **ASIC & EDA** ,1994 EDN ,1994 IEEE Circuits & Devices ,1994 ACM SIGGRAPH 86 ,1986 ACM SIGGRAPH 87 ,1987 Government Reports Announcements & Index ,1989-04 Arts & Humanities Citation Index ,1986 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world s leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals **VLSI Design Tools: Reference Manual** University of Washington. Department of Computer Science, 1988

Whispering the Secrets of Language: An Emotional Quest through **Vlsi Lab Manual Using Tanner Eda**

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<https://letsgetcooking.org.uk/public/virtual-library/fetch.php/Samsung%20Galaxy%20W%20User%20Manual.pdf>

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as wood bone leather cord stone or maybe even gold gems or mammoth ivory precious wood such as ebony will be great for a handsome knife pins or rivets and epoxy adhesive will be needed to affix the handle

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either a temporary brick forge or a different style made from a small barbeque grill to this is added a makeshift anvil tongs made from large nippers and a modified cross pein hammer and you re ready to forge

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cc has a curvature and tightness of the spine causing a lot of pain the osteopath referred her to me to keep her musculature in better condition making it easier to manipulate and to maintain improvements after osteopathic treatment i see cc on a regular basis weekly or fortnightly cc is of a slim build and 5 8 see more

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several stretches were shown to be done mornings and evenings i suggested side stretches for the quadratus lumborum a couple of stretches for the rhomboids and the neck to help maintain the improvement and to keep the see more

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