

## LAB 10

### TTL and CMOS Logic Gates

Reading: Hayes and Horowitz, Class 13 and Lab 13.

Today you will be introduced to the circuits of digital electronics. We will start with some circuits made with discrete electronics to perform logical AND, OR and NOT functions. Next, properties of the most commonly used integrated circuit series, the LS-TTL and HC CMOS, are studied. Finally you will use these basic chips to construct more complex circuits.

#### 1. Mickey Mouse Logic and the Totem Pole Output

These are among the simplest logic devices. They are useful in their own right from time to time. Also, they demonstrate the input circuitry to the most commonly used TTL chips, the low-power Schottky (LS-TTL) family. Here we use standard 1N914 signal diodes instead of the faster Schottky diodes used in LS-TTL gates.

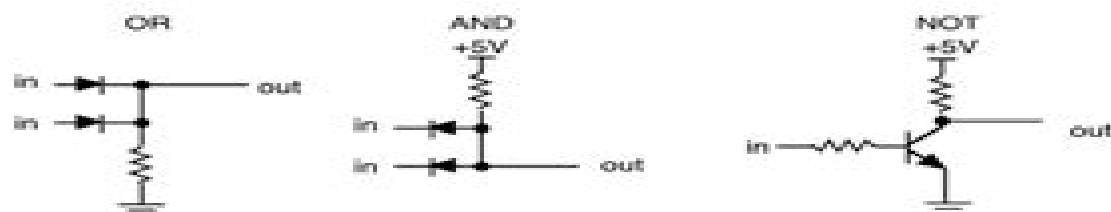


Fig 12.1

The AND circuit illustrated in Fig 12.1 is similar to the input of the 74LS00 NAND gates. Build it and confirm the logic function experimentally and record your results in a truth table. When you test this gate, use 0 V and 5 V for logical false and true.

TTL expects at least 2.0 V input for a high (true) input and guarantees at least 2.4 V for a high output. CMOS requires at least 3.5 V for a high input and delivers at least 4.9 V for high output. In what ways do these circuits disobey these criteria?

# Lab Manual For Logic Gates In Cmos

**Jim C. DeLoach**



## Lab Manual For Logic Gates In Cmos:

Digital Circuits Laboratory Manual Farzin Asadi,2023-08-30 Digital systems are an important part of modern life This book introduces the basic building blocks of digital systems and how these blocks can be used to design a digital system It can be used as a laboratory manual for courses such as Digital Logic and Digital Electronics All of the experiments in this book can be done in a simulation environment like Proteus or NI MultiSim or on the breadboard in a real laboratory environment ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION NAVAS, K. A.,2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments It will also be useful to the undergraduate students of electrical science branches of engineering and applied science This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop Further it covers experiments for basic electronics lab electronic circuits lab and digital electronics lab A separate chapter is devoted to the simulation of electronics experiments using PSpice Each experiment has aim components and equipment required theory circuit diagram tables graphs alternate circuits answered questions and troubleshooting techniques Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students The purpose of the experiments described here is to acquaint the students with Analog and digital devices Design of circuits Instruments and procedures for electronic test and measurement

Digital Technology Lab Manual Webb R J Staff,1988-12 **Digital Circuit Design Laboratory Manual, 4th edition (Global)** Akhan Almagambetov,J. Matt Pavlina,Yelena Mukhortova, Experiments Manual for Digital Electronics Roger L. Tokheim,2003 Lab. Manual for CSE/CSE-DS/ AIML/AIDS students-A Practical Manual Dr. Rajiv Chopra,2025-02-21 Lab Manual for CSE CSE DS AIML AIDS Students By Dr Rajiv Chopra This book serves as a comprehensive lab manual for B Tech students specializing in Computer Science Data Science Artificial Intelligence and Machine Learning Designed with a practical and experiment based approach it bridges the gap between theory and real world application Covering essential programming concepts AI ML techniques and hands on exercises this manual equips students with the skills needed for modern computing challenges Ideal for CSE IT ECE and related disciplines this book encourages students to explore experiment and apply their knowledge effectively in labs and projects **Lab Manual** Gregory L. Moss,1991 Laboratory Manual for Electronic Circuits - 3 Murat AKSOY,2018-10-02 **EP363/P360 Course Notes and Laboratory Manual** Raphael Littauer,1985 Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English Susan S. Mathew,Saji T. Chacko,2021-11-01 Fundamentals of Electrical Electronics Engineering is a compulsory paper for the first year Diploma course in Engineering Technology Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education Books covers six topics Overview of Electronics Components and Signals Overview of Analog Circuits Overview of Digital Electronics Electric and magnetic

Circuits A C Circuits and Transformer and Machines Each topic is written in easy and lucid manner A set of exercises at the end of each unit to test the student's comprehension is provided Some salient features of the book are: Content of the book aligned with the mapping of Course Outcomes Programs Outcomes and Unit Outcomes The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity The book provides lots of vital facts concepts principles and other interesting information QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided Student and teacher centric course materials included in book in balanced manner Figures tables equations and comparative charts are inserted to improve clarity of the topics Objective questions and subjective questions are given for practices of students at the end of each unit Solved and unsolved problems including numerical examples are solved with systematic steps

*Optoelectronics, Fiber Optics and Lasers* Morris Tischler, 1992 As optoelectronic applications become more prevalent the demand for technicians trained in this speciality grows This text lab manual provides a comprehensive study of the use of optical electronic devices circuits and fibre optics in industrial controls data transmission and telecommunications The practical orientation of Optoelectronics enables students to prepare such tasks as troubleshooting optoelectronic devices or developing circuits that meet specific requirements Optoelectronics contains 36 one to two hour experiments

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*Fundamentals of Digital Electronics* George B. Rutkowski, Jerome E. Oleksy, 1985

**Electronics with Digital and Analog Integrated Circuits** Richard J.

Higgins, 1983 This book is about using electronics without fear This book includes both digital and analog integrated circuit instrumentation Many microcomputer interfacing examples are given Preface page xi xii

*Logic-timing Simulation and the Degradation Delay Model* Manuel J. Bellido, Jorge Juan Chico, Manuel Valencia, 2006 This book provides the reader with an extensive background in the field of logic timing simulation and delay modeling It includes detailed information on the challenges of logic timing simulation applications advantages and drawbacks The capabilities of logic timing are explored using the latest research results that are brought together from previously disseminated materials An important part of the book is devoted to the description of the Degradation Delay Model developed by the authors showing how the inclusion of dynamic effects in the modeling of delays greatly improves the application cases and accuracy of logic timing simulation These ideas are supported by simulation results extracted from a wide range of practical applications Sample Chapter s

**Microelectronics Education** Ton J. Mouthaan, Cora Salm, 2012-12-06 Dear participant in the second European Workshop on Microelectronics Education It is a pleasure to present you the Proceedings of the Second European Workshop on Microelectronics Education and to welcome you at the Workshop The Organising Committee is very pleased that it has

found several key persons with highly appreciated levels of knowledge and expertise willing to present Invited Contributions to this Workshop We have striven for an interesting spread over important areas like the expected demands for educated engineers in the wide field of Microelectronics and Microsystems in European industry and beyond and innovations in method and focus of our educational programmes This is the second European Workshop in this area the first one was held in Grenoble in France in the spring of 1996 It was the initiative of Georges Kamarinos Nadine Guillemot and Bernard Courtois to organise this Workshop because they felt that Microelectronics was at a turning point to become the core of the largest industry in the world and that this warranted a serious re consideration of our educational imperatives It is now two years since and their feeling has become reality nobody doubts that by the year 2000 the microelecnonics industry will be the largest industrial sector It is also obvious that because of that and because of the predicted shortfall of educated engineers we must continuously reconsider the quality of our educational approach

**Lab Manual Troubleshooting and Design to Accompany Digital Systems** Frank J. Ambrosio,1997 [Analog Design Issues in Digital VLSI Circuits and Systems](#) Juan J. Becerra,Eby G. Friedman,2012-12-06 Analog Design Issues in Digital VLSI Circuits and Systems brings together in one place important contributions and up to date research results in this fast moving area Analog Design Issues in Digital VLSI Circuits and Systems serves as an excellent reference providing insight into some of the most challenging research issues in the field

**Electronics - Circuits and Systems** Owen Bishop,2007-11-09 The material in Electronics Circuits and Systems is a truly up to date textbook with coverage carefully matched to the electronics units of the 2007 BTEC National Engineering and the latest AS and A Level specifications in Electronics from AQA OCR and WJEC The material has been organized with a logical learning progression making it ideal for a wide range of pre degree courses in electronics The approach is student centred and includes numerous examples and activities web research topics Self Test features highlighted key facts formulae and definitions Each chapter ends with a set of problems including exam style questions and multiple choice questions The book is now also supported by a companion website featuring extensive support for students and lecturers including answers to the questions in the book interactive exercises extra math support and selected illustrations from the book

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