

LIST OF EXPERIMENTS

1. Study of logic gates.
2. Design and implementation of adders and subtractors using logic gates.
3. Design and implementation of code converters using logic gates.
4. Design and implementation of 4-bit binary adder/subtractor and BCD adder using IC 7483.
5. Design and implementation of 2-bit magnitude comparator using logic gates, 8-bit magnitude comparator using IC 7485.
6. Design and implementation of 16-bit odd/even parity checker/ generator using IC 74180.
7. Design and implementation of multiplexer and demultiplexer using logic gates and study of IC 74150 and IC 74154.
8. Design and implementation of encoder and decoder using logic gates and study of IC 7445 and IC 74147.
9. Construction and verification of 4-bit ripple counter and Mod-10/Mod-12 ripple counter.
10. Design and implementation of 3-bit synchronous up/down counter.
11. Implementation of SISO, SIPO, PISO and PIPO shift registers using flip-flops.

Lab Manual For Digital Electronics Pune University

**Institute of Electrical and Electronics
Engineers**



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Digital Electronics Lab Manual Abraham Michelen, 2000 Accompanying CD ROM includes Electronics Workbench circuits for the experiments in the manual **IT and the Development of Digital Skills and Competences in Education** Ordóñez de Pablos, Patricia, Lytras, Miltiadis D., Zhang, Xi, 2020-10-16 Digital technologies are transforming economies and societies around the world As such markets demand new types of skills and competences that students must learn in order to be successful IT and emerging technologies can be integrated into educational institutions to improve teaching methods and academic results as well as digital literacy IT and the Development of Digital Skills and Competences in Education compiles critical research into one comprehensive reference source that explores the new demands of labor markets in the digital economy how educational institutions can respond to these new opportunities and threats the development of new teaching and learning methods and the development of digital skills and competences Through new theories research findings and case studies the book seeks to incite new perspectives to understandings of the challenges and opportunities of the utilization of IT in the education sector around the world Due to innovative topics that include digital competence disruptive technologies and digital transformation this book is an ideal reference for academicians directors of schools vice chancellors education and IT experts CEOs policymakers in the field of education and IT researchers and students 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 **Lab Manual to Accompany Digital Electronics** James Bignell, 2000 **Digital Electronics Laboratory Manual** Robert D. Thompson, 2000-11-01 Digital Electronics Laboratory Manual P. David Fisher, 1975 **Electronics and Information Technology Annual Report** India. Department of Electronics and Information Technology, 2011 **Digital Electronics** Inderbir Kaur, Geeta Mongia, 2016-06-30 This is an attempt at creating a comprehensive compilation of practicals on combinational and sequential logic using ICs and basic gates An integrated book for popular digital electronics practicals with comprehensive inputs on each practical including theory and sample questions for viva exams It will improve ease of conducting practicals with all required information

available at one place along with detailed procedures for all experiments supported by typical QA to help students prepare for exams and improve their insights *Experiments in Analog and Digital Electronics* Thomas Brewer,1997-01-01

Solid-state Analog and Digital Electronics Laboratory Manual Thomas D. Strickler,1982 *Characterisation of Soft Magnetic Materials Under Rotational Magnetisation* Stanislaw Zurek,2017-11-22 The book presents practical aspects related to the measurement of rotational power loss in soft magnetic materials The book furthermore focuses on practical aspects of performing such measurements the associated difficulties as well as solutions to the most common problems Numerous practical aspects hands on experience and most commonly encountered pitfalls are heavily discussed in the book The text begins with introduction to magnetism then follows with definitions of measurement methods of rotational power loss from physical viewpoint Two chapters describe and detail the various sensors which can be employed for such measurements as well as all the aspects of designing making and using a magnetising apparatus A synthesis of the likely optimal design of a magnetising apparatus is also given preceded with the full reasoning based on all the research carried out to date *Characterisation of Soft Magnetic Materials Under Rotational Magnetisation* serves as an excellent starting point for any student having to perform magnetic measurements under rotational magnetisation but also under 1D 2D or 3D excitation Because the methods sensors and apparatus are extensively discussed it will also be a great reference for more senior researchers and experts in the field There is a whole chapter devoted to analysis of measurement uncertainty This subject is rarely published for magnetic measurements which makes it more difficult for all researchers to understand the concepts and methodology used in uncertainty estimation This chapter not only introduces the whole subject but also provides multiple step by step examples which can be easily followed from very simple cases to much more complex ones All equations are presented with full SI units which greatly helps in practical application of the presented methodology Each chapter is written in such a way that it can be studied on its own so that the reader can focus only on the specific aspects as required **Popular Science** ,2004-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better *Experiments in Analog and Digital Electronics* Thomas E. Brewer,2006-07 *IEEE Membership Directory* Institute of Electrical and Electronics Engineers,1988 Ratschlag betreffend die Erwerbung des Asphofes im Banne Münchenstein ,1957 **Laboratory Manual Digital Electronics** Terry L.M. Bartelt,1991 **Bulletin of the Institution of Engineers (India)**. Institution of Engineers (India),1980 Basic Electronics ,1976 *Digital Electronics Laboratory Manual* Dennis Quatrone,1994-01-01 **Books in Series, 1876-1949** R.R. Bowker Company,1982

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