

VLSI DESIGN LABORATORY MANUAL



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
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Lab Manual For Vlsi

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Lab Manual For Vlsi:

Lab Manual Latest Edition Dr. J. P. Goel, 2016-12-17 Lab E Manual Physics For XIIth Practicals A Every student will perform 10 experiments 5 from each section 8 activities 4 from each section during the academic year Two demonstration experiments must be performed by the teacher with participation of students The students will maintain a record of these demonstration experiments B Evaluation Scheme for Practical Examination One experiment from any one section 8 Marks Two activities one from each section 4 4 8 Marks Practical record experiments activities 6 Marks Record of demonstration experiments Viva based on these experiments 3 Marks Viva on experiments activities 5 Marks Total 30 Marks Section A Experiments 1 To determine resistance per cm of a given wire by plotting a graph of potential difference versus current 2 To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material 3 To verify the laws of combination series parallel of resistances using a metre bridge 4 To compare the emf of two given primary cells using potentiometer 5 To determine the internal resistance of given primary cells using potentiometer 6 To determine resistance of a galvanometer by half deflection method and to find its figure of merit 7 To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same 8 To find the frequency of the a c mains with a sonometer Activities 1 To measure the resistance and impedance of an inductor with or without iron core 2 To measure resistance voltage AC DC current AC and check continuity of a given circuit using multimeter 3 To assemble a household circuit comprising three bulbs three on off switches a fuse and a power source 4 To assemble the components of a given electrical circuit 5 To study the variation in potential drop with length of a wire for a steady current 6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram Section B Experiments 1 To find the value of v for different values of u in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$ 3 To find the focal length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror 8 To draw the I V characteristic curve of a p n junction in forward bias and reverse bias 9 To draw the characteristic curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter npn or pnp transistor and to find out the values of current and voltage gains Activitie 1 To study effect of intensity of light by varying distance of the source on a L D R 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type transistors iii see the unidirectional flow of current in case of a diode and a LED iv

check whether a given electronic component e g diode transistor or I C is in working order 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab 5 To observe polarization of liquid using two Polaroids 6 To observe diffraction of light due to a thin slit 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using a candle and a screen for different distances of the candle from the lens mirror 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses Suggested Investigatory Projects

1 To investigate whether the energy of a simple pendulum is conserved 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration 4 To compare effectiveness of different materials as insulators of heat 5 To determine the wavelengths of laser beam by diffraction 6 To study various factors on which the internal resistance emf of a cell depends 7 To construct a time switch and study dependence of its time constant on various factors 8 To study infrared radiations emitted by different sources using photo transistor 9 To compare effectiveness of different materials as absorbers of sound 10 To design an automatic traffic signal system using suitable combination of logic gates 11 To study luminosity of various electric lamps of different powers and make 12 To compare the Young s modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve 13 To study collision of two balls in two dimensions 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit

Project Impact - Disseminating Innovation in Undergraduate Education Ann McNeal,1998-02 Contains abstracts of innovative projects designed to improve undergraduate education in science mathematics engineering and technology Descriptions are organized by discipline and include projects in astronomy biology chemistry computer science engineering geological sciences mathematics physics and social sciences as well as a selection of interdisciplinary projects Each abstract includes a description of the project published and other instructional materials additional products of the project and information on the principal investigator and participating institutions

Designing Digital Electronics David Perkins,1996

Technical Reports Awareness Circular : TRAC. ,1989-04

Handbook of Research on Emergent Applications of Optimization Algorithms Vasant, Pandian,Alparslan-Gok, Sirma Zeynep,Weber, Gerhard-Wilhelm,2017-10-31 Modern optimization approaches have attracted an increasing number of scientists decision makers and researchers As new issues in this field emerge different optimization methodologies must be developed and implemented The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering Featuring coverage on a broad range of topics and perspectives such as hybrid systems non cooperative games and cryptography this publication is ideally designed for students researchers and engineers interested in emerging developments in optimization algorithms

Anatomy of a Silicon Compiler Robert W. Brodersen,2012-12-06 A silicon

compiler is a software system which can automatically generate an integrated circuit from a user's specification. Anatomy of a Silicon Compiler examines one such compiler in detail covering the basic framework and design entry, the actual algorithms and libraries which are used, the approach to verification and testing, behavioral synthesis tools and several applications which demonstrate the system's capabilities.

Future Generation Information Technology Jung-Hyun Lee, Byeong-Ho Kang, Dominik Ślęzak, 2010-11-26 As information technology IT becomes specialized and fragmented it is easy to lose sight that many topics have common threads and because of this advances in one's discipline may transmit to another. The presentation of results between different disciplines encourages this interchange for the advancement of IT as a whole. This volume comprises the selection of papers presented at the Second International Mega Conference on Future Generation Information Technology FGIT 2010 composed of the following 11 international conferences: Advanced Software Engineering and Its Applications ASEA 2010, Bio Science and Bio Technology BSBT 2010, Control and Automation CA 2010, Disaster Recovery and Business Continuity DRBC 2010, Database Theory and Application DTA 2010, Future Generation Communication and Networking FGCN 2010, Grid and Distributed Computing GDC 2010, Multimedia Computer Graphics and Broadcasting MulGraB 2010, Security Technology SecTech 2010, Signal Processing Image Processing and Pattern Recognition SIP 2010 as well as u and e Service Science and Technology UNESST 2010. In total 1 630 papers were submitted to FGIT 2010 from 30 countries. The submitted papers went through a rigorous reviewing process and 395 papers were accepted. Of these 395 papers 60 were assigned to this volume. In addition this volume contains 7 invited papers and abstracts. Of the remaining accepted papers 269 were distributed among 8 volumes of proceedings published by Springer in the CCIS series. 66 papers were withdrawn due to technical reasons.

Proceedings ,2003 Circuit Analysis (for Anna University) Gnanasivam, 2017

Fifth Generation Computer Systems T. Moto-Oka, 2012-12-02 The Japan Information Processing Development Centre JIPDEC established a committee for Study and Research on Fifth Generation Computers. Beginning in 1979 this Committee set out on a two year investigation into the most desirable types of computer systems for application in the 1990's fifth generation computers and how the development projects aimed at the realization of these systems should be carried forward. This book contains the papers presented at the International Conference on Fifth Generation Computer Systems. Included among these papers is a preliminary report on the findings of the Committee.

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 The 20th 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 World 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 21st century

With Honors Grace Wen, Success in life takes more than straight A's Melinda is an honors engineering student with a secret she has cheated on every lab assignment since her junior year As graduation day approaches she realizes she can't keep trying to be someone she's not Can she find a way to live her truth This story was previously published in 2012

Anatomy, Physiology and Laboratory Management Mr. Rohit Manglik, 2024-03-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Scientific and Technical Aerospace Reports, 1995

MOSFET Modeling & BSIM3 User's Guide Yuhua Cheng, Chenming Hu, 2007-05-08 Circuit simulation is essential in integrated circuit design and the accuracy of circuit simulation depends on the accuracy of the transistor model BSIM3v3 BSIM for Berkeley Short channel IGFET Model has been selected as the first MOSFET model for standardization by the Compact Model Council a consortium of leading companies in semiconductor and design tools In the next few years many fabless and integrated semiconductor companies are expected to switch from dozens of other MOSFET models to BSIM3 This will require many device engineers and most circuit designers to learn the basics of BSIM3 MOSFET Modeling BSIM3 User's Guide explains the detailed physical effects that are important in modeling MOSFETs and presents the derivations of compact model expressions so that users can understand the physical meaning of the model equations and parameters It is the first book devoted to BSIM3 It treats the BSIM3 model in detail as used in digital analog and RF circuit design It covers the complete set of models i.e. I-V model capacitance model noise model parasitics model substrate current model temperature effect model and non quasi static model MOSFET Modeling BSIM3 User's Guide not only addresses the device modeling issues but also provides a user's guide to the device or circuit design engineers who use the BSIM3 model in digital analog circuit design RF modeling statistical modeling and technology prediction This book is written for circuit designers and device engineers as well as device scientists worldwide It is also suitable as a reference for graduate courses and courses in circuit design or device modelling Furthermore it can be used as a textbook for industry courses devoted to BSIM3 MOSFET Modeling BSIM3 User's Guide is comprehensive and practical It is balanced between the background

information and advanced discussion of BSIM3 It is helpful to experts and students alike *CoED.*,1990 *Publications of the National Bureau of Standards ... Catalog* United States. National Bureau of Standards,1984 High-Speed Circuit Board Signal Integrity, Second Edition Stephen C. Thierauf,2017-04-30 This thoroughly updated leading edge circuit design resource offers the knowledge needed to quickly pinpoint transmission problems that can compromise the entire circuit design This new edition demonstrates how to apply EM theory to solve signal integrity problems with a practical application oriented approach Discussing both design and debug issues at gigabit per second data rates the book serves as a practical reference for projects involving high speed serial signaling on printed wiring boards Step by step this book goes from reviewing the essentials of linear circuit theory to examining practical issues of pulse propagation along lossless and lossy transmission lines It provides detailed guidelines for crosstalk attenuation power supply decoupling and layer stackup tradeoffs including pad antipad tradeoffs Other key topics include the construction of etched conductors analysis of return paths and split planes microstrip and stripline characteristics and SMT capacitors Filled with on the job proven examples this hands on reference is the book that engineers can turn to time and again to design out and troubleshoot circuit signal loss and impedance problems **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1988 NBS List of Publications United States. National Bureau of Standards,1985

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1

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web so yes cell membrane is all so present so cell membrane is present but a cell wall is absent if we talk about the self content so that would include the nucleus mitochondria so self content we can write that it is going to include the nucleus mitochondria and if we talk about the vacuole vacuole is absent in the cheek epithelial cells

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web estimate the size of an individual cell and the size of the nucleus size of cell 50 80 micrometers size of nucleus approximately 10 micrometers what shape are the cells the cells are irregular in shape can you see the cell membrane the cell membrane itself is too small to be seen with a compound microscope