Third Edition

Basic VLSI Design

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  Basic VLSI Design Douglas A. Pucknell,Kamran Eshraghian,1994   *Basic VLSI Design* Douglas A. Pucknell,Kamran Eshraghian,1985   Basic VLSI Design Douglas A. Pucknell,Kamran Eshraghian,1988   2D Nanomaterials and Devices for Flexible Electronics Balwinder Raj,Shobhit Saxena,Nandakishor Yadav,Tarun Chaudhary,Mandeep Singh,2026-01-08 The text explains 2D materials nanodevices and analysis of their design parameters to meet the sub nano regime challenges for complementary metal oxide semiconductor devices It further covers important topics such as 2D nanomaterial based transistors flexible sensors wearable electronics flexible energy storage devices 2D nanomaterial based antennas and artificial intelligence enhanced flexible electronics Features Explains the design of flexible transistors based on 2D nanomaterials and the manufacturing process for flexible devices with 2D materials Discusses the importance of artificial intelligence in the modeling simulation characterization and development of flexible electronic devices Presents applications of 2D nanomaterials based flexible devices on the Internet of Things and healthcare sector Highlights the importance of 2D materials in the design of flexible sensors and wearable electronic devices Showcases how to integrate flexible sensors and low power devices based on 2D nanomaterials into the Internet of Things for intelligent homes It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electrical and communications engineering materials science nanoscience and nanotechnology   VLSI CAD CHIPLUNKAR, NIRANJAN N.,KOTARI, MANJUNATH,2011-04-01 This well organised book presents the basics of VLSI along with important algorithms used by CAD tool designers It discusses general VLSI design styles layout design rules technology mapping in FPGAs and 3D FPGAs In addition the text describes three important steps in high level synthesis of VLSI namely partitioning scheduling and data path allocation besides logic synthesis which determines the gate level structure of circuits Finally the book gives a detailed account of physical synthesis where steps such as floorplanning placement routing and compaction are explained with necessary algorithms This book is intended as a text for the undergraduate and postgraduate students of engineering Electrical and Electronics Engineering Electronics and Communication Engineering Computer Science and Engineering besides Instrumentation for their course on VLSI CAD In addition the book would also be extremely useful for professionals in this field KEY FEATURES Presents a variety of chip design tools Includes a fairly large number of algorithms Discusses VHDL and graph theory essential for VLSI CAD tool design Provides 100 questions selected from various university examination papers   *SOLID STATE DEVICES* NAIR, B. SOMANATHAN,DEEPA, S. R.,2018-11-01 Designed as a text for undergraduate students of engineering in Electrical Electronics and Computer Science and IT disciplines as well as undergraduate students B Sc of physics and electronics as also for postgraduate students of physics and electronics this compact and accessible text endeavours to simplify the theory of solid state devices so that even an average student will be able to understand the concepts with ease The authors Prof Somanathan Nair and Prof S R Deepa with their rich and long

experience in teaching the subject provide a detailed discussion of such topics as crystal structures of semiconductor materials Miller indices energy band theory of solids energy level diagrams and mass action law Besides they give a masterly analysis of topics such as direct and indirect gap materials Fermi Dirac statistics electrons in semiconductors Hall effect PN junction diodes Zener and avalanche breakdowns Schottky barrier diodes bipolar junction transistors MOS field effect transistors Early effect Shockley diodes SCRs TRIAC and IGBTs In the Second Edition two new chapters on opto electronic devices and electro optic devices have been added The text has been thoroughly revised and updated A number of solved problems and objective type questions have been included to help students develop grasp of the contents This fully illustrated and well organized text should prove invaluable to students pursuing various courses in engineering and physics DISTINGUISHING FEATURES Discusses the concepts in an easy to understand style Furnishes over 300 clear cut diagrams to illustrate the discussed Gives a very large number of questions short answer fill in the blanks tick the correct answer and review questions to sharpen the minds of the reader Provides more than 200 fully solved numerical problems Gives answers to a large number of exercises   *ELECTRICAL AND ELECTRONIC MEASUREMENTS* GOPAL KRISHNA BANERJEE,2012-01-18 In this modern scientific world a thorough understanding of complex measurements and instruments is the need of the hour This book provides a comprehensive coverage of the concepts and principles of measurements and instrumentation and brings into focus the recent and significant developments in this field The book presents an exhaustive exposition of different types of measuring instruments and their applications in an easy to grasp manner It presents even the minute details of various measurement techniques and calibration methods which are the essential features of a measurement programme The book elaborates on the theoretical background and practical knowledge of different measuring instruments to make the students accustomed to these devices An in depth coverage of topics makes the text useful to somewhat more advanced courses and its elaborated methodology will help students meet the challenges in their career This book is ideally suitable for undergraduate students BE B Tech of Electrical Electronics and Instrumentation and Control disciplines of engineering It can be also used as reference book for the cable testing testing of instruments transformers testing of energy meters and measurement of physical variables KEY FEATURES Gives a number of chapter end review questions and numerical problems for practice Includes plenty of diagrams to clarify the concepts Contains about 250 problems and 200 solved examples for the benefit of the students   **Proceedings of 2nd International Conference on Micro-Electronics, Electromagnetics and Telecommunications** Suresh Chandra Satapathy,Vikrant Bhateja,P. Satish Rama Chowdary,V.V.S.S. Sameer Chakravarthy,Jaume Anguera,2017-09-06 The book is a collection of best papers presented in the Second International Conference on Microelectronics Electromagnetics and Telecommunication ICMEET 2016 an international colloquium which aims to bring together academic scientists researchers and research scholars to discuss the recent developments and future trends in the fields of microelectronics electromagnetics and telecommunication

Microelectronics research investigates semiconductor materials and device physics for developing electronic devices and integrated circuits with data energy efficient performance in terms of speed power consumption and functionality The book discusses various topics like analog digital and mixed signal circuits bio medical circuits and systems RF circuit design microwave and millimeter wave circuits green circuits and systems analog and digital signal processing nano electronics and giga scale systems VLSI circuits and systems SoC and NoC MEMS and NEMS VLSI digital signal processing wireless communications cognitive radio and data communication **Study Guide to Basic VLSI Design** Douglas A. Pucknell,Kamran Eshraghian,1985 *Australian Books in Print 1999* K G Saur Books,1999-04 Excellent coverage essential to worldwide bibliographic coverage American Reference Books Annual This comprehensive reference provides current finding ordering information on more than 123 000 in print books published in Australia You ll also find brief profiles of more than 12 000 publishers distributors whose titles are represented as well as information on trade associations local agents of overseas publishers literary awards more From Thorpe **Designing with High Performance ASICs** Joseph Di Giacomo,1992 Discussing ASIC techniques of designing troubleshooting and evaluating application specific integrated circuit chips this book explores the concepts principles and methods of high performance ASIC design It covers the pros and cons of CAD tools and discusses product customization **International Conference on Simulation and Hardware Description Languages (ICSHDL)** Philip A. Wilsey,David Rhodes,1994 Computers and Their Applications Narayan C. Debnath,1998 **Improvement of Stochastic Optimization Through Learning for Complex Problems** Lixin Su,2000 Thick-film Hybrids Malcolm R. Haskard,1988 **Bookbuyers' Reference Book** ,1993 The British Library General Catalogue of Printed Books 1986 to 1987 British Library,1988 *Indian Books in Print* ,2003 *Proceedings of the ... Midwest Symposium on Circuits and Systems* ,1998 **Australian National Bibliography** ,1994

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