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Savitribai Phule Pune University w.e.f. academic year 2020-2021

Digital Electronics and Logic Design

(Code : 210245)

Semester III - Computer Engineering

Same Subject, Same Authors with New Publication
J. S. Katre Harish G. Narula

Includes :

● Solved University Question Papers Upto Dec. 2019.



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Digital Electronics Techmax Pdfslibforme

Stanley M. Hajek



Digital Electronics Techmax Pdfslibforme:

Digital Electronics Anil K. Maini, 2007-09-27 The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer industrial electronics communications embedded systems computers security and military equipment Devices used in applications such as these are constantly decreasing in size and employing more complex technology It is therefore essential for engineers and students to understand the fundamentals implementation and application principles of digital electronics devices and integrated circuits This is so that they can use the most appropriate and effective technique to suit their technical need This book provides practical and comprehensive coverage of digital electronics bringing together information on fundamental theory operational aspects and potential applications With worked problems examples and review questions for each chapter Digital Electronics includes information on number systems binary codes digital arithmetic logic gates and families and Boolean algebra an in depth look at multiplexers de multiplexers devices for arithmetic operations flip flops and related devices counters and registers and data conversion circuits up to date coverage of recent application fields such as programmable logic devices microprocessors microcontrollers digital troubleshooting and digital instrumentation A comprehensive must read book on digital electronics for senior undergraduate and graduate students of electrical electronics and computer engineering and a valuable reference book for professionals and researchers Introduction to Digital Electronics J. Crowe, Barrie Hayes-Gill, 1998-03-27 This text takes the student from the very basics of digital electronics to an introduction of state of the art techniques used in the field It is ideal for any engineering or science student who wishes to study the subject from its basic principles as well as serving as a guide to more advanced topics for readers already familiar with the subject The coverage is sufficiently in depth to allow the reader to progress smoothly onto higher level texts **Modern Digital Electronics** R Jain, 2006-08-21 Part of the McGraw Hill Core Concepts Series Modern Digital Electronics is an ideal textbook for a course on digital electronics at the undergraduate level The text introduces digital systems and techniques through a bottom up approach that allows users to start out with the basics of integrated circuits circuit design and delve into topics such as digital design flip flops A D and D A The book then moves on to explore elements of complex digital circuits with material like FPGAs PLDs PLAs and more Rich pedagogical features include review questions with answers a glossary of key terms a large number of solved examples and numerous practice problems This is a concise less expensive alternative to other digital logic designs This series is edited by Dick Dorf Introduction to Digital Electronics Stanley M. Hajek, 1986 **Digital Electronics** Rishabh Anand, The book covers the complete syllabus of subject as suggested by most of the universities in India Proper balance between mathematical details and qualitative discussion Subject matter in each chapter develops systematically from inceptions Large number of carefully selected worked examples in sufficient details Each chapter of the book is saturated with much needed test supported by neat and self explanatory diagrams to make the subject self speaking to a great extent No other reference

is required Ideally suited for self study **DIGITAL ELECTRONICS: PRINCIPLES AND INTEGRATED CIRCUITS** Anil K. Maini,2007 Market_Desc Undergraduate and graduate level students of different universities Special Features Each chapter in the book whether it is related to operational fundamentals or applications is amply illustrated with diagrams and design examples Each chapter concludes in a comprehensive self evaluation exercise comprising multiple choice questions with answers and other type of objective type questions with answers Unlike most of the books in print on the subject that are either too brief lacking in illustrated examples and examination oriented study material or too voluminous containing lot of redundant material the book has been written keeping in mind the topics taught in the subject and covers in entirety what is required by undergraduate and graduate level students of engineering in electrical electronics instrumentation and control computer science and information technology disciplines About The Book Digital Electronics is a precise and yet complete book covering both Digital Electronics Fundamentals and Integrated Circuits This book provides practical and comprehensive coverage of digital electronics bringing together information on fundamental theory operational aspects and potential applications Each chapter in the book is amply illustrated with diagrams and design examples Each chapter concludes in a comprehensive self evaluation exercise comprising multiple choice and objective type questions with answers The book has up to date coverage of recent application fields such as programmable logic devices microprocessors and microcontrollers This valuable reference book provides in depth information about multiplexers de multiplexers devices for arithmetic operations flip flops and related devices counters and registers and data conversion circuits *Digital Electronics* William Kleitz,2002 For freshman sophomore undergraduate level courses in Digital Electronics This easy to understand book illustrates practical applications using circuits the student will face on the job **Digital electronics: principles and practice. With a specially written chapter for the guidance of the English reader by W. Oliver** Brice Ward,1974 *Handbook of Digital Electronics* John D. Lenk,1981 **Basic Digital Electronics** J.A. Strong,2013-03-12 Modern electronics is the most visible result of research in solid state physics Transistors and integrated circuits are used everywhere in ever increasing numbers The microprocessor controlled coffee pot exists Most experimental physicists and indeed experimental scientists in most disciplines study their subject with the aid of apparatus containing significant amounts of electronics and much of that electronics is digital In order to design experiments and apparatus or simply to understand how a piece of equipment works an under standing of electronics has become increasingly important In recognition that electronics has pervaded so many areas courses in digital electronics are now a recommended part of physics and many other science degree courses At the introductory level digital electronics is primarily a practical subject with relatively few basic concepts and any complex ity arises from the coupling together of many simple circuits and the extensive use of feedback Designing an electronic circuit and then getting it to work correctly provides an experience and a sense of achievement which is significantly different from most undergradu ate work as it more closely resembles project

work than standard laboratory practicals **Digital Electronics: Principles & Practice** Brice Ward,1975 **Digital Electronics** Atul P. Godse,Deepali A. Godse,2011 Digital Electronics William H. Gothmann,1977 **Digital Electronics** James Bignell,Robert Donovan,1989 This basic text for digital electronics offers complete practical coverage of the latest digital principles techniques and hardware Written in a concise easy to read style it includes everything from basic digital concepts to an introduction to microprocessors microcontrollers Perfect for a one semester course this is the only text that includes both hands on labs and computer simulated labs using Electronics Workbench ALSO AVAILABLE Lab Manual ISBN 0 7668 0330 9 **Loose Leaf for Digital Electronics: Principles and Applications** Roger L. Tokheim,Patrick E. Hoppe,2021-01-29 Digital Electronics Principles and Applications 9e is an easy to read introductory text for students new to the field of digital electronics Providing entry level knowledge and skills for a wide range of occupations is the goal of this textbook and its ancillary materials Concepts are connected to practical applications and a systems approach is followed that reflects current practice in industry This concise and practical text can be used in any program needing a quick and readable overview of digital principles Digital Electronics: Principles and Applications Roger L. Tokheim,2013-01-16 Digital Electronics Principles and Applications provides a concise modern approach to this fascinating subject It has been written so that a student needs no prior knowledge of electrical theory and principles and at a level that allows students with limited math and reading skills to gain a clear understanding of concepts and applications covered in a digital electronics course The textbook has been noted for its easy to read style and colorful illustrations It is ideal for a wide range of electronics courses especially programs in which students must learn the essentials and quickly apply them to real life situations Also available with this edition is MHE s Online Learning Center that features numerous instructor resources including solutions to the problems an image library and new lecture PowerPoints for each chapter You will also find a test bank for each chapter that allows instructors to assign online homework and quizzes this online homework is gradable and can be edited by instructors Modern Digital Electronics 4E Jain,2010 **Digital Electronics** Roger L Tokheim,2018 **The Practice of Digital Electronics** Pierre Pelloso,1986-06-04 This introductory text presents a new and unusual approach to digital electronics developed by the author during his years of experience as a teacher of the subject Each chapter starts with a concise summary of the required theoretical background which is followed by specific exercises **Digital Electronics** Robert D. Thompson,2001 Approaching the task of learning digital electronics operation from a developmental approach rather than relying on antiquated rote memorization this user friendly guide emphasizes the use of developmental techniques to derive the knowledge necessary to understand operational and design concepts Employs many innovative ideas to simplify understanding of digital concepts enlightening readers with wisdom gained from over thirty years of author s electronics experience in government academia and industry Takes a developmental approach to show how logic gates operate promoting a step by step assimilation of information needed to understand AND OR NAND and NOT gate operations and

enabling readers to complete truth tables and draw a gate's output with ease Uses a logical approach in its analysis of Boolean and DeMorgan's theorems and includes methods on how to read a Boolean expression and develop alternate logic gate symbols

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