



New Edition
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Strictly as per the New Choice Based Credit System Syllabus (2019 Course)
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.

 **Tech Knowledge**TM
Publications

Digital Electronics Techmax Slibforme

Brice Ward



Digital Electronics Techmax Slibforme:

Introduction to Digital Electronics J. Crowe, Barrie Hayes-Gill, 1998-04-10 Introduction and Basic Principles introduction Boolean algebra Number systems Combinational Logic Introduction Sum of products representation The negative logic approach Minimalisation Common combinational circuits The 4 bit adder a design example Systolic iterative arrays General sums of products circuits Hazards in combinational circuits Fault diagnosis Sequential circuits Introduction Asynchronous sequential circuits Flip flops Registers Counters Synchronous sequential circuits Choosing a Means of Implementation Introduction Technology The level of integration Possible Design Routes Discrete implementation PAL PLA EPLD implementation Mask programmable gate arrays Field programmable gate arrays Standard cell Full custom VHDL Digital Meets Analogue Index *Digital Electronics* Anil Kumar Maini, 2007 **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 **Digital Electronics Demystified** Myke Predko, 2005-01-11 The field of teaching digital electronics has not changed significantly in the past 20 years Many of the same books that first became available in the late 1970s and early 1980s are still being used as basic texts In the 20 years since these were written the basic rules have not changed but they do not provide strong links to modern electronics including CMOS logic Programmable Logic Devices and microprocessor microcontroller interfacing Courses teaching introductory digital electronics will fill in the missing areas of information for students but neither the instructors nor students have resources to explain modern technology and interfaces One assumption made by all the standard texts is that experimenting with digital electronics cannot be done easily in the proposed book digital guru Myke Predko will show how readers can set up their own apparatus for experimenting with digital electronics for less than 10

Understanding Digital Electronics R. H. Warring, 1982 A highly accessible introduction to the workings of digital electronics the components at the heart of modern computer technology **Digital Electronics with Engineering Applications** Thomas P. Sifferlen, Vartan Vartanian, 1970 **Digital Electronics Demystified** Myke Predko, 2004-12-21
 The field of teaching digital electronics has not changed significantly in the past 20 years Many of the same books that first became available in the late 1970s and early 1980s are still being used as basic texts In the 20 years since these were written the basic rules have not changed but they do not provide strong links to modern electronics including CMOS logic Programmable Logic Devices and microprocessor microcontroller interfacing Courses teaching introductory digital electronics will fill in the missing areas of information for students but neither the instructors nor students have resources to explain modern technology and interfaces One assumption made by all the standard texts is that experimenting with digital electronics cannot be done easily in the proposed book digital guru Myke Predko will show how readers can set up their own apparatus for experimenting with digital electronics for less than 10 *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 **Practical Digital Electronics** Nigel P. Cook, 2004 Appropriate for Digital Electronics courses in high schools vocational technical schools and community colleges After 16 textbooks 26 editions and 19 years of front line education experience best selling author Nigel Cook s new text Practical Digital Electronics completes the successful Practical Series trilogy Practical Electricity 14 dc ac chapters ISBN 0 13 042047 6 Practical Electronics 14 devices chapters ISBN 0 13 042082 4 Practical Digital Electronics 14 digital chapters ISBN 0 13 111060 8 **Digital Electronics** Roger L. Tokheim, 1993 Digital Electronics Tokheim, 2004-11-01 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* McGraw-Hill, Roger L. Tokheim, 2003-09 Digital Electronics William H. Gothmann, 1982 Introduction to Digital Electronics Kauffman, 1986-08-01 *Digital Electronics* Brice Ward, 1975 **Digital Electronics** Kleitz, 2004-06 *Digital electronics: principles and practice. With a specially written chapter for the guidance of the English reader by W. Oliver* Brice Ward, 1974 Principles and Applications of Digital Electronics Larry D. Jones, 1986 **Fundamentals of Digital Electronics** Robert K. Dueck, 1996-03-01

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