

# Textbook of Digital Electronics

Second Edition

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# Digital Electronics Textbook

**Roger L. Tokheim, Patrick E. Hoppe**



## Digital Electronics Textbook:

**A Textbook of Digital Electronics** RS Sedha, 2008 While writing this treatise I have constantly kept in mind the requirements of all the students regarding the latest as well as changing trend of their examinations To make it really useful for the students latest examination questions of various indian universities as well as other examinations bodies have been included The Book has been written in easy style with full details and illustrations

**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, 1999

**Introduction to Digital Electronics, 1/e** Betty Lincoln, 2014 Designed to provide a comprehensive and practical insight to the basic concepts of Digital Electronics this book brings together information on theory operational aspects and practical applications of digital circuits in a succinct style that is suitable for undergraduate students Spread across 16 chapters the book walks the student through the first principles and the Karnaugh mapping reduction technique before proceeding to elaborate on the design and implementation of complex digital circuits With ample examples and exercises to reinforce theory and an exclusive chapter allotted for electronic experiments this textbook is an ideal classroom companion for students

**Digital Electronics** Roger L. Tokheim, 2003 Designed to be used as an introductory text for students new to the electronics field the Fourth Edition offers practical and easy to understand coverage of this fast changing field Building on students understanding of basic electronics concepts Tokheim develops a thorough explanation of TTL and CMOS devices and their applications Special attention is given to related troubleshooting techniques and equipment Students are introduced to microprocessor based systems and microcomputers As with all the titles in the Basic Skills in Electricity and Electronics Series Digital Electronics employs numerous class tested features to aid learning and comprehension A unique four color design throughout highlights key elements of illustrations and important concepts and terms A vertical color bar on each page focuses on key words Fully work out illustrative examples help develop

students problem solving abilities Frequent short self tests with answers provide immediate reinforcement and build students confidence This new edition features performance objectives and critical thinking questions for every chapter The Activities Manual offers a wide variety of hands on applications of the subject including experiments that emphasize practical aspects of troubleshooting It also includes pretests and posttests research projects and construction projects The Instructor s Manual is designed to help you present a unified course and to fit digital electronics into the overall electricity electronics curriculum It contains answers to all problems in the text and representative data for all lab experiments as well as a new computerized test generator

*DIGITAL ELECTRONICS AND LOGIC DESIGN* NAIR, B. SOMANATHAN, 2002-01-01 Designed as a textbook for undergraduate students in Electrical Engineering Electronics Computer Science and Information Technology this up to date well organized study gives an exhaustive treatment of the basic principles of Digital Electronics and Logic Design It aims at bridging the gap between these two subjects The many years of teaching undergraduate and postgraduate students of engineering that Professor Somanathan Nair has done is reflected in the in depth analysis and student friendly approach of this book Concepts are illustrated with the help of a large number of diagrams so that students can comprehend the subject with ease Worked out examples within the text illustrate the concepts discussed and questions at the end of each chapter drill the students in self study

*Digital Electronic Circuits* Shuqin Lou, Chunling Yang, 2019-05-20 This book presents three aspects of digital circuits digital principles digital electronics and digital design The modern design methods of using electronic design automation EDA are also introduced including the hardware description language HDL designs with programmable logic devices and large scale integrated circuit LSI The applications of digital devices and integrated circuits are discussed in detail as well

*Introduction to Digital Electronics* Kenneth J. Reid, Robert K. Dueck, 2008 The perfect introduction to digital concepts applications and design Digital Design with CPLD Applications uses a logical organization of topics clear explanations and current examples to present key information in a way that is easy to grasp Unique in its approach this book covers combinational and sequential logic circuits using CPLDs while still covering circuit design at the gate level using TTL CMOS devices The book begins by introducing combinational logic including detailed explanations for implementing circuits in Altera Quartus II software and CPLDs The material continues to be presented at the gate level preparing readers to successfully navigate more complicated areas like functional circuits Using formal problem solving concepts combinational design is then covered which includes a large combinational design that includes the building and simulation of each component marking a valuable departure from traditional books in the field which do not cover large scale design at a combinational level Additional coverage includes sequential circuits with an emphasis on relevant and useful circuits and microprocessor and memory concepts

**Foundation of Digital Electronics and Logic Design** Subir Kumar Sarkar, Asish Kumar De, Souvik Sarkar, 2014-12-10 This book focuses on the basic principles of digital electronics and logic design It is designed as a textbook for undergraduate students of electronics electrical engineering computer science

physics and information technology The text covers the syllabi of several Indian and foreign universities It depicts the comprehensive resources *Digital Electronics: Principles and Applications* Roger L. Tokheim, Patrick E. Hoppe, 2021-04-23

*Digital Electronics* William Kleitz, 2002 *Analogue and Digital Electronics for Engineers* H. Ahmed, P. J.

Spreadbury, 1984-10-18 This new edition of Ahmed and Spreadbury's excellent textbook *Electronics for Engineers* provides like the first edition an introduction to electronic circuits covering the early part of degree level courses in electronics and electrical engineering The text of the first edition has been extensively revised and supplemented to bring it up to date two entirely new chapters have been added on the subject of digital electronics A first chapter on the general principles of signal handling in electronic circuits is followed by descriptions of amplifiers using field effect and bipolar transistors and integrated circuit op amps written from the point of view of the engineering student building up a system Subsequent chapters discuss the principles of applying negative and positive feedback in amplifiers leading the reader to the final two chapters covering digital circuits and their applications All chapters conclude with a solved problem followed by a number of practice questions from various universities to which answers are given This new edition like the first will prove a valuable text for first and second year courses in universities and polytechnics on electronics and electrical engineering and will be useful to practising engineers and scientists who need to use analogue and digital chips in the course of their work *Loose Leaf for Digital Electronics: Principles and Applications* Roger Tokheim, 2014-12-31 The eighth edition of *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 can gain a clear understanding of concepts and application 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 job situations

*Digital Electronics*, 2018 ***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 ***Analogue and Digital Electronics for Engineers*** H.

Ahmed, P. J. Spreadbury, 1984-10-18 This new edition of Ahmed and Spreadbury's excellent textbook *Electronics for Engineers* provides like the first edition an introduction to electronic circuits covering the early part of degree level courses in electronics and electrical engineering The text of the first edition has been extensively revised and supplemented to bring it up to date two entirely new chapters have been added on the subject of digital electronics A first chapter on the general

principles of signal handling in electronic circuits is followed by descriptions of amplifiers using field effect and bipolar transistors and integrated circuit op amps written from the point of view of the engineering student building up a system. Subsequent chapters discuss the principles of applying negative and positive feedback in amplifiers leading the reader to the final two chapters covering digital circuits and their applications. All chapters conclude with a solved problem followed by a number of practice questions from various universities to which answers are given. This new edition like the first will prove a valuable text for first and second year courses in universities and polytechnics on electronics and electrical engineering and will be useful to practising engineers and scientists who need to use analogue and digital chips in the course of their work.

**Digital Electronics** Atul P. Godse, 2008      **Digital Electronics** Roger L Tokheim, 2018      *Analogue and Digital Electronics* Lionel Warnes, 1998. This undergraduate textbook provides comprehensive coverage of analogue and digital circuits and devices supported by sufficient circuit theory and semiconductor physics to make the book self contained. It includes worked examples and problems.

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