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publisher description in digital electronics demystified electronics expert and author myke predko provides a totally painless way to learn enough digital logic and

electronics to build your own projects with digital electronics demystified you master the subject one simple step at a time at your own speed this unique guide offers problems at the end of each chapter and section to pinpoint weaknesses and a 100 question final exam to reinforce the entire book

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 understanding 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 complexity 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 undergraduate work as it more closely resembles project work than standard laboratory practicals

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

this book provides up to date coverage of all aspects of digital design incorporating computer based experimentation via electronic workbench and providing numerous practical applications a section in each chapter is devoted to troubleshooting digital circuitry systems a special icon highlights numerous tips throughout the book number systems binary arithmetic logic families basic logic gates combinational logic

circuit design flip flops counters synchronous logic circuit design circuit design using programmable logic complex logic functions memories digital data transmission troubleshooting techniques for engineers or anyone else who is interested in digital electronics

logic concepts boolean algebra combinational logic binary number operations flip flops counter analysis and design sequential circuits digital circuit fault analysis analog digital conversion computers and microprocessors

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

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

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

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

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 is the branch of physics that deals with electronic circuits that use digital signals in digital circuits signals can be transmitted without degradation a digital circuit is constructed using logic gates that are created from electrically controlled switches such as transistors an integrated circuit consists of multiple transistors on a single silicon chip and designed using electronic design automation software digital circuit complexity can be minimized using algorithms such as espresso heuristic logic minimizer algorithms for the optimization of large logic systems employ binary decision diagrams or algebraic manipulations this book is a valuable compilation of topics ranging from the basic to the most complex theories and principles in the field of digital electronics the various aspects of digital electronics along with technological progress that have future implications have also been glanced at in this book constant effort has been made to make the understanding of the difficult concepts of digital electronics as easy and informative as possible for the readers

an introductory text to digital circuits for beginning electronics students which provides coverage of basic digital concepts and includes 46 actual digital projects that illustrate concrete applications coverage encompasses digital combinational and sequential logic circuits

discover the essential knowledge and practical skills to excel in the dynamic field of

digital electronics with mastering digital electronics from the fundamentals of diode resistor logic to unraveling the intricacies of ttl and cmos logic gates this book takes you on a journey through the evolution of digital electronics starting with the humble sr latch and progressing to the revolutionary jk flip flop that powers today s computer technology you ll gain a solid foundation in binary arithmetic boolean algebra and the representation and optimization of digital circuits the book gives a firm understanding of digital electronics then moves on to using standard design methods such as state diagrams to design everyday logic circuits such as counters shift registers piso and sipo registers it delves into how to design some challenging digital circuits such as a crossroad set of traffic lights with a pelican crossing and how to use the 555 timer to control a variety of applications at every stage of the book you will be learning how to use tina version 12 an industry standard ecad and many of its functions moreover the book ventures into using the software to simulate and so confirm all the circuits you design for readers interested in advancing to the practical implementation of the circuits discussed the book provides opportunities to design pcb circuit boards for selected circuits using the software this book will suit any student of digital electronics at any level and provide them with essential reference material for them to start a career in digital electronics what you ll learn what logic gates are and the difference between sequential and combinational logic how to use binary numbers and how to perform all arithmetic operations learn about the five basic logic gates and nand or nor and exor gates how to minimize logic circuits using boolean algebra and karnaugh maps how to state diagrams to design logic circuits how to design a range of logic circuits learn about combinational circuits and the half and full adder as well as a logic circuit to subtract binary numbers learn about the 555 timer and how to apply it to a range of logic circuits who this book is for students who are studying for an engineering qualification hobbyist who wants to design digital circuits engineers who need a go to reference book on digital electronics

this text covers updated contents such as optoisolators stepper motors electronic simulation software digital capacitance meters optical encoding leds logic probes and arithmetic logic units

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