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# Digital Electronics Lab Viva Questions With Answers

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With Answers*

2019-06-28

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**DILLON JAYLEEN**

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**Arduino Development**

**Cookbook** Springer  
New, updated and  
expanded topics in the

fourth edition include: EBCDIC, Grey code, practical applications of flip-flops, linear and shaft encoders, memory elements and FPGAs. The section on fault-finding has been expanded. A new chapter is dedicated to the interface between digital components and analog voltages. \*A highly accessible, comprehensive and fully up to date digital systems text \*A well known and respected text now revamped for current courses \*Part of the Newnes suite of texts for

HND/1st year modules  
**Sensors and Transducers** Packt Publishing Ltd  
 In this book Ian Sinclair provides the practical knowhow required by technician engineers, systems designers and students. The focus is firmly on understanding the technologies and their different applications, not a mathematical approach. The result is a highly readable text which provides a unique introduction to the selection and application of sensors, transducers

and switches, and a grounding in the practicalities of designing with these devices. The devices covered encompass heat, light and motion, environmental sensing, sensing in industrial control, and signal-carrying and non-signal switches. Get up to speed in this key topic through this leading practical guide Understand the range of technologies and applications before specifying Gain a working knowledge with a minimum of maths

PULSE AND DIGITAL  
CIRCUITS Oxford

University Press, USA

This is a textbook for upper undergraduate and graduate courses on microwave engineering, written in a student-friendly manner with many diagrams and illustrations. It works towards developing a foundation for further study and research in the field. The book begins with a brief history of microwaves and introduction to core concepts of EM waves and wave guides. It covers

equipment and concepts involved in the study and measurement of microwaves. The book also discusses microwave propagation in space, microwave antennae, and all aspects of RADAR. The book provides core pedagogy with chapter objectives, summaries, solved examples, and end-of-chapter exercises. The book also includes a bonus chapter which serves as a lab manual with 15 simple experiments detailed with proper circuits, precautions, sample

readings, and quiz/viva questions for each experiment. This book will be useful to instructors and students alike.

*Infinity and the Mind*

Packt Publishing Ltd

Updated to reflect the latest advances in the field, the Sixth Edition of Fundamentals of Digital Logic and Microcontrollers further enhances its reputation as the most accessible introduction to the basic principles and tools required in the design of digital systems. Features updates and revision to more than half

of the material from the previous edition Offers an all-encompassing focus on the areas of computer design, digital logic, and digital systems, unlike other texts in the marketplace Written with clear and concise explanations of fundamental topics such as number system and Boolean algebra, and simplified examples and tutorials utilizing the PIC18F4321 microcontroller Covers an enhanced version of both combinational and sequential logic design,

basics of computer organization, and microcontrollers  
**SWITCHING THEORY AND LOGIC DESIGN**  
 KHANNA BOOK PUBLISHING CO. PVT. LTD.  
 • • Learn the 'whys and hows' of digital system design with FPGAs from this thorough treatment. • Up-to-date information and comparison of different modern FPGA devices. • IEEE Fellow Wayne Wolf brings all related aspects of VLSI to FPGA system design in this thorough introduction.

**Modern Digital Electronics** Pearson Educación  
 This comprehensive text on switching theory and logic design is designed for the undergraduate students of electronics and communication engineering, electrical and electronics engineering, electronics and instrumentation engineering, telecommunication engineering, computer science and engineering, and information technology. It will also be useful to AMIE, IETE and

diploma students. Written in a student-friendly style, this book, now in its Second Edition, provides an in-depth knowledge of switching theory and the design techniques of digital circuits. Striking a balance between theory and practice, it covers topics ranging from number systems, binary codes, logic gates and Boolean algebra to minimization using K-maps and tabular method, design of combinational logic circuits, synchronous and asynchronous sequential circuits, and

algorithmic state machines. The book discusses threshold gates and programmable logic devices (PLDs). In addition, it elaborates on flip-flops and shift registers. Each chapter includes several fully worked-out examples so that the students get a thorough grounding in related design concepts. Short questions with answers, review questions, fill in the blanks, multiple choice questions and problems are provided at the end of each chapter. These help

the students test their level of understanding of the subject and prepare for examinations confidently. NEW TO THIS EDITION • VHDL programs at the end of each chapter • Complete answers with figures • Several new problems with answers Basic Electrical and Electronics Engineering McGraw-Hill Science/Engineering/Math [This book] is written for the beginning student pursuing a technical degree in electronics technology. In covering the fundamentals of

electricity and electronics, [it] focuses on essential topics for the technician, and the all-important development of testing and troubleshooting skills. It is [an] introduction to basic DC and AC circuits and electronic devices.- Back cover.

### **Arduino Electronics**

#### **Blueprints** CL

Engineering

This book is based upon the principle that an understanding of devices and circuits is most easily achieved by learning how to design circuits. The text is intended to provide

clear explanations of the operation of all important electronics devices generally available today, and to show how each device is used in appropriate circuits. Circuit design and analysis methods are also treated, using currently available devices and standard value components. All circuits can be laboratory tested to check the authenticity of the design process. Coverage includes: Diodes, BJTs, FETs, Small-Signal Amplifiers, NFB Amplifiers, Power

amplifiers, Op-Amps, Oscillators, Filters, Switching Regulators, and IC Audio amplifiers.

### **Strange Beauty** PHI

Learning Pvt. Ltd.

Containing 250 short, entertaining, and thought-provoking entries, this book explores such engaging topics as dark energy, parallel universes, the Doppler effect, the God particle, and Maxwell's demon. The timeline extends back billions of years to the hypothetical Big Bang and forward trillions of years to a time of quantum

resurrection.

### **Digital Electronics**

Technical Publications  
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.  
Solid State Electronic  
Devices Addison Wesley  
Publishing Company  
The knowledge of

switchgear and apparatus  
protection plays an  
important role in the  
power system. The book  
is structured to cover the  
key aspects of the course  
Switchgear & Protection  
for undergraduate  
students. The book starts  
with the discussion of  
basics of protective  
relaying. The book  
includes comprehensive  
coverage of faults and  
analysis of symmetrical  
and unsymmetrical faults.  
The book explains the  
protection against  
overvoltage, lightning  
arresters and power

system earthing. The book covers the characteristics of various types of relays such as electromagnetic relays, induction type relays, directional relays, differential relays, thermal relays, frequency relays and negative sequence relays. The detailed discussion of distance relays and static relays is also included in the book. The book also covers the various possible faults and methods of protection of transformers, generators, motors, busbars and transmission

lines. The book further explains the theory of circuit interruption and various arc interruption methods. Finally, the book incorporates various types of circuit breakers, circuit breaker ratings and testing of circuit breakers. The book uses plain and lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary

illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

**FUNDAMENTALS OF DIGITAL CIRCUITS** John Wiley & Sons

This book is primarily designed to serve as a textbook for undergraduate students of electrical, electronics, and computer engineering, but can also be used for primer



courses across other disciplines of engineering and related sciences. The book covers all the basic aspects of electronics engineering, from electronic materials to devices, and then to basic electronic circuits. The book can be used for freshman (first year) and sophomore (second year) courses in undergraduate engineering. It can also be used as a supplement or primer for more advanced courses in electronic circuit design. The book uses a simple narrative style, thus simplifying

both classroom use and self study. Numerical values of dimensions of the devices, as well as of data in figures and graphs have been provided to give a real world feel to the device parameters. It includes a large number of numerical problems and solved examples, to enable students to practice. A laboratory manual is included as a supplement with the textbook material for practicals related to the coursework. The contents of this book will be useful also for students and

enthusiasts interested in learning about basic electronics without the benefit of formal coursework. Digital Logic PHI Learning Pvt. Ltd. Want to hook up your home theater system? Want to fix it so your garage band rocks the neighborhood? Want to solder the faulty wire on your old phonograph so you can play those 60s albums you've kept all this time? Whether you're a do-it-yourselfer , hobbyist, or student , this book will turn you on to

real-world electronics. It quickly covers the essentials, and then focuses on the how-to instead of theory. It covers: Fundamental concepts such as circuits, schematics, voltage, safety, and more Tools of the trade, including multimeters, oscilloscopes, logic probes, and more Common electronic components (e.g. resistors, capacitors, transistors) Making circuits using breadboards and printed circuit boards Microcontrollers

(implementation and programming) Author Gordon McComb has more than a million copies of his books in print, including his bestselling Robot Builder's Bonanza and VCRs and Camcorders For Dummies. He really connects with readers! With lots of photos and step-by-step explanations, this book will have you connecting electronic components in no time! In fact, it includes fun ideas for great projects you can build in 30 minutes or less. You'll be amazed! Then you can tackle cool

robot projects that will amaze your friends! (The book gives you lots to choose from.) Students will find this a great reference and supplement to the typical dry, dull textbook. So whether you just want to bone up on electronics or want to get things hooked up, souped up, or fixed up,...whether you're interested in fixing old electronic equipment, understanding guitar fuzz amps, or tinkering with robots, Electronics For Dummies is your quick connection to the stuff you need to know.

Grob's Basic Electronics

OUP India

A dynamic exploration of infinity In *Infinity and the Mind*, Rudy Rucker leads an excursion to that stretch of the universe he calls the "Mindscape," where he explores infinity in all its forms: potential and actual, mathematical and physical, theological and mundane. Using cartoons, puzzles, and quotations to enliven his text, Rucker acquaints us with staggeringly advanced levels of infinity, delves into the depths beneath daily

awareness, and explains Kurt Gödel's belief in the possibility of robot consciousness. In the realm of infinity, mathematics, science, and logic merge with the fantastic. By closely examining the paradoxes that arise, we gain profound insights into the human mind, its powers, and its limitations. This Princeton Science Library edition includes a new preface by the author. *ELECTRONICS LAB MANUAL (VOLUME 2)* Sterling Publishing Company, Inc.

This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India. The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories. This book covers 118 experiments for linear/analog integrated circuits lab, communication engineering lab, power electronics lab, microwave lab and optical

communication lab. The experiments described in this book enable the students to learn: • Various analog integrated circuits and their functions • Analog and digital communication techniques • Power electronics circuits and their functions • Microwave equipment and components • Optical communication devices  
 This book is intended for the B.Tech students of Electronics and Communication Engineering, Electrical and Electronics

Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science, and Applied Electronics. It is designed not only for engineering students, but can also be used by BSc/MSc (Physics) and Diploma students.  
 KEY FEATURES • Contains aim, components and equipment required, theory, circuit diagram, pin-outs of active devices, design, tables, graphs, alternate circuits, and troubleshooting techniques for each experiment • Includes

viva voce and examination questions with their answers • Provides exposure on various devices  
 TARGET AUDIENCE • B.Tech (Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science, and Applied Electronics) • BSc/MSc (Physics) • Diploma (Engineering)  
**The Loom of God**  
 Springer Science &

Business Media  
Appropriate for upper level undergraduate or graduate courses in microwave transistor amplifiers and oscillators. It would also be useful for short-courses in companies that design and produce these devices. A unified presentation of the analysis and design of microwave transistor amplifiers (and oscillators) -- using scattering parameters techniques.

### **Digital Techniques**

Vintage

As we approach the end

of the present century, the elementary particles of light (photons) are seen to be competing increasingly with the elementary particles of charge (electrons/holes) in the task of transmitting and processing the insatiable amounts of information needed by society. The massive enhancements in electronic signal processing that have taken place since the discovery of the transistor, elegantly demonstrate how we have learned to make use of

the strong interactions that exist between assemblages of electrons and holes, disposed in suitably designed geometries, and replicated on an increasingly fine scale. On the other hand, photons interact extremely weakly amongst themselves and all-photon active circuit elements, where photons control photons, are presently very difficult to realise, particularly in small volumes. Fortunately rapid developments in the design and understanding

of semiconductor injection lasers coupled with newly recognized quantum phenomena, that arise when device dimensions become comparable with electronic wavelengths, have clearly demonstrated how efficient and fast the interaction between electrons and photons can be. This latter situation has therefore provided a strong incentive to devise and study monolithic integrated circuits which involve both electrons and photons in their operation. As chapter I notes, it is

barely fifteen years ago since the first demonstration of simple optoelectronic integrated circuits were realised using m-V compound semiconductors; these combined either a laser/driver or photodetector/preamplifier combination.

*Arduino by Example*  
McGraw-Hill  
Science/Engineering/Math  
Design and build fantastic projects and devices using the Arduino platform  
About This Book Explore the different sensors that can be used to improve

the functionality of the Arduino projects Program networking modules in conjunction with Arduino to make smarter and more communicable devices A practical guide that shows you how to utilize Arduino to create practical, useful projects  
Who This Book Is For This book is an ideal choice for hobbyists or professionals who want to create quick and easy projects with Arduino. As a prerequisite, readers must have a working Arduino system and some programming background, ideally in

C/C++. Basic knowledge of Arduino is helpful but not required to follow along with this book. What You Will Learn Understand and utilize the capabilities of the Arduino Integrate sensors to gather environmental data and display this information in meaningful ways Add modules such as Bluetooth and Wi-Fi that allow the Arduino to communicate and send data between devices Create simple servers to allow communication to occur Build automated projects including robots

while learning complex algorithms to mimic biological locomotion Implement error handling to make programs easier to debug and look more professional Integrate powerful programming tools and software such as Python and Processing to broaden the scope of what the Arduino can achieve Practice and learn basic programming etiquette In Detail Arduino an opensource physical computing platform based on a simple microcontroller board, and a development

environment for writing software for the board. The opensource Arduino software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other opensource software. With the growing interest in home-made, weekend projects among students and hobbyists alike, Arduino offers an innovative and feasible platform to create projects that promote

creativity and technological tinkering. *Arduino by Example* is a project-oriented guide to help you fully utilize the power of one of the world's most powerful open source platforms, Arduino. This book demonstrates three projects ranging from a home automation project involving your lighting system to a simple robotic project to a touch sensor project. You will first learn the basic concepts such as how to get started with the Arduino, and as you start building the project,

you will develop the practical skills needed to successfully build Arduino powered projects that have real-life implications. The complexity of the book slowly increases as you complete a project and move on to the next. By the end of this book, you will be able to create basic projects and utilize the elements used in the examples to construct your own devices. Style and approach This book follows a project-oriented approach, with multiple images and plenty of code to help you build your

projects easily. The book uses a tutorial-based methodology where the concepts are first explained and then implemented to help you develop the projects. *Verilog: Frequently Asked Questions* KHANNA PUBLISHING HOUSE The second edition of this well-received text continues to provide a coherent and comprehensive coverage of Pulse and Digital Circuits, suitable as a textbook for use by undergraduate students pursuing courses in



Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Telecommunication Engineering. It presents clear explanations of the operation and analysis of semiconductor pulse circuits. Practical pulse circuit design methods are investigated in detail. The book provides numerous fully worked-out, laboratory-tested examples to give students a solid grounding in the related design concepts. It

includes a number of classroom-tested problems to encourage students to apply theory in a logical fashion. Review questions, fill in the blanks, and multiple choice questions offer the students the opportunity to test their understanding of the text material. This text will be also appropriate for self-study by AMIE and IETE students. NEW TO THIS EDITION : • Includes two new chapters—Logic Gates and Logic Families—to meet the curriculum requirements.

• Provides short questions with answers at the end of each chapter. • Presents several new illustrations, examples and exercises  
DBMS Lab Manual  
Princeton University Press  
INTRODUCTION TO SYSTEMS” is a compulsory paper for the first year Diploma in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education. Book covers five units- Internet Skills

and Computer Basics, Operating Systems, HTML and CSS, open Office Tools. And information Security Best Practices. Each topic in units is written in each and lucid manner. Every unit contains a set of exercise at the end of each unit to test student's comprehension. Some salient features of the book: | Content of the book aligned with the

mapping of Course Outcomes, Programs Outcomes and unit Outcomes. | Practical are included with each unit for better understanding of the theoretical concepts. | Book Provides interesting facts and various activities pertaining to topic. QR Codes are used for additional E-resources, use of ICT, online code editors, online quiz etc. | Student and teacher

centric subject materials included in balanced and chronological manner. | Figures, tables, source code for web programming, numerous examples and applications are included to improve clarity of the topics. | Objective questions, subjective questions and crossword exercise are given for practice of students after every chapter.