

# Chapter 3 SOLUTIONS

1) a)  $I_D = \frac{V_{in} - 2V_{D0n}}{R_1 + R_2}$

$$= \frac{2.5 - 1.4}{4k\Omega} = \frac{1.1V}{4k\Omega}$$

$$I_D = 275\mu A$$

b)  $I_S = 10^{-14} A$ ,  $T = 300K$ ,  $V_{D0n} = 0.7V$

$$I_D = I_S (e^{V_D/\phi_T} - 1)$$

where  $\phi_T = \frac{kT}{q} = 26mV @ 300K$

⊛  $I_D = \frac{V_{in} - 2V_D}{R_1 + R_2} = I_S (e^{V_D/\phi_T} - 1)$   
 $\frac{2.5 - 2V_D}{4k\Omega} = 10^{-14} (e^{V_D/0.026} - 1)$

iterating on this expression  
we can obtain.

$$V_D = 0.628V$$

$$I_D = 311\mu A$$

c) SPICE

exercise 3.1

```
vin in 0 dc 2.5
r1 in 2 2k
d1 2 3 D
r2 3 out 2k
d2 out 0 D
```

```
.options post=2
.op
```

```
.model D D level=1 is=1e-14 n=0.5
```

```
.end
```

```
*****
NODE      VOLTAGE
2         1.8750E+00
3         1.2500E+00
OUT       6.2501E-01
```

CURRENT 3.1249E-04

d)  $I_S = 10^{-14} A$ ,  $T = 300K$ ;  
again use ⊛ from b and iterate  
to find:

$$V_D = 0.743V$$

$$I_D = 253\mu A$$

$I_S = 10^{-14} A$ ,  $T = 350K$ ;

$$V_D = 0.728V$$

$$I_D = 261\mu A$$

```
exercise 3.1d
vin in 0 dc 2.5
r1 in 2 2k
d1 2 3 D
r2 3 out 2k
d2 out 0 D
```

```
.options post=2
.op
```

```
*.temp 27
*.temp 77
*.model D D level=1 is=1e-14 n=0.5
*.model D D level=1 is=1e-14 n=0.5
.end
```

```
*****
t=27C*
NODE      VOLTAGE
2         1.9890E+00
3         1.2500E+00
IN        2.5000E+00
OUT       7.3892E-01
```

```
ID        2.5554E-04
*****
t=77C*
NODE      VOLTAGE
2         1.7844E+00
3         1.2500E+00
IN        2.5000E+00
OUT       5.3436E-01
```

ID 3.5782E-04

# Digital Integrated Circuits Solution

**Dale R Patrick, Stephen W. Fardo, Ray  
E. Richardson, Vigyan (Vigs) Chandra**

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Fardo, Ray E. Richardson, Vigyan (Vigs) Chandra, 2023-05-26 Devices and Circuit Fundamentals is Chapter Outline Learning Objectives Key Terms Figure List Chapter Summary Formulas Answers to Examples Self Exams Glossary of Terms defined

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looking not only at the treatment of circuits but also at the treatment of introductory coursework in engineering in general. Using the concept of abstraction the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. Balances circuits theory with practical digital electronics applications. Illustrates concepts with real devices. Supports the popular circuits and electronics course on the MIT OpenCourseWare from which professionals worldwide study this new approach. Written by two educators well known for their innovative teaching and research and their collaboration with industry. Focuses on contemporary MOS technology.

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**Analog and Digital Electronic Circuits** R. Prasad, 2021-05-15 This book introduces the foundations and fundamentals of electronic circuits. It broadly covers the subjects of circuit analysis as well as analog and

digital electronics It features discussion of essential theorems required for simplifying complex circuits and illustrates their applications under different conditions Also in view of the emerging potential of Laplace transform method for solving electrical networks a full chapter is devoted to the topic in the book In addition it covers the physics and technical aspects of semiconductor diodes and transistors as well as discrete time digital signals logic gates and combinational logic circuits Each chapter is presented as complete as possible without the reader having to refer to any other book or supplementary material Featuring short self assessment questions distributed throughout along with a large number of solved examples supporting illustrations and chapter end problems and solutions this book is ideal for any physics undergraduate lecture course on electronic circuits Its use of clear language and many real world examples make it an especially accessible book for students unfamiliar or unsure about the subject matter

Fachwörterbuch Elektronische Medien und Dienste / Dictionary of Electronic Media and Services Horst von Renouard, 2013-03-13 Mit rund 30 000 Stichwörtern und vielen Zusatzinformationen umfasst dieses Wörterbuch die aktuellsten Entwicklungen im Bereich der Telekommunikations und Multimediaanwendungen einschließlich PC Terminologie Windows Abkürzungen fachliche Zusatzbemerkungen und Verweise auf Normen und Standards machen das Wörterbuch außerdem zum hochaktuellen Nachschlagewerk Concise text Mit ca 30 000 Stichwörtern und 11 Tabellen umfasst das Wörterbuch den gesamten Bereich der Telekommunikations und Multimedia Anwendungen einschließlich der PC Terminologie

*Electronics Cookbook* Simon Monk, 2017-03-31 If you're among the many hobbyists and designers who came to electronics through Arduino and Raspberry Pi this cookbook will help you learn and apply the basics of electrical engineering without the need for an EE degree Through a series of practical recipes you'll learn how to solve specific problems while diving into as much or as little theory as you're comfortable with Author Simon Monk Raspberry Pi Cookbook breaks down this complex subject into several topics from using the right transistor to building and testing projects and prototypes With this book you can quickly search electronics topics and go straight to the recipe you need It also serves as an ideal reference for experienced electronics makers This cookbook includes Theoretical concepts such as Ohm's law and the relationship between power voltage and current The fundamental use of resistors capacitors and inductors diodes transistors and integrated circuits and switches and relays Recipes on power sensors and motors integrated circuits and radio frequency for designing electronic circuits and devices Advice on using Arduino and Raspberry Pi in electronics projects How to build and use tools including multimeters oscilloscopes simulations software and unsoldered prototypes

Solutions Manual Digital Integrated Circuits CRC Press, 2009-07-10 Any textbook more than five years old simply won't do in digital integrated circuits as dynamic CMOS circuits have emerged to dominate the field Providing a revised instructional text for engineers involved with Very Large Scale Integrated Circuit design and fabrication this second edition delves into the dramatic advances including new applications and changes in the physics of operation made possible by relentless miniaturization Each chapter includes numerous worked examples case studies and SPICE computer

simulations The book's website offers supplementary material and more worked problems Qualifying instructors will have access to a new instructor's manual FPGA Implementations of Neural Networks Amos R. Omondi, Jagath C.

Rajapakse, 2006-10-04 During the 1980s and early 1990s there was significant work in the design and implementation of hardware neurocomputers Nevertheless most of these efforts may be judged to have been unsuccessful at no time have hardware neurocomputers been in wide use This lack of success may be largely attributed to the fact that earlier work was almost entirely aimed at developing custom neurocomputers based on ASIC technology but for such niche uses this technology was never sufficiently developed or competitive enough to justify large scale adoption On the other hand gate arrays of the period mentioned were never large enough nor fast enough for serious artificial neural network ANN applications But technology has now improved the capacity and performance of current FPGAs are such that they present a much more realistic alternative Consequently neurocomputers based on FPGAs are now a much more practical proposition than they have been in the past This book summarizes some work towards this goal and consists of 12 papers that were selected after review from a number of submissions The book is nominally divided into three parts Chapters 1 through 4 deal with foundational issues Chapters 5 through 11 deal with a variety of implementations and Chapter 12 looks at the lessons learned from a large scale project and also reconsiders design issues in light of current and future technology *Makers of the Microchip* Christophe

Lecuyer, David C. Brock, 2022-10-25 The first years of the company that developed the microchip and created the model for a successful Silicon Valley start up In the first three and a half years of its existence Fairchild Semiconductor developed produced and marketed the device that would become the fundamental building block of the digital world the microchip Founded in 1957 by eight former employees of the Shockley Semiconductor Laboratory Fairchild created the model for a successful Silicon Valley start up intense activity with a common goal close collaboration and a quick path to the market Fairchild's first device hit the market just ten months after the company's founding Fairchild Semiconductor was one of the first companies financed by venture capital and its success inspired the establishment of venture capital firms in the San Francisco Bay area These firms would finance the explosive growth of Silicon Valley over the next several decades This history of the early years of Fairchild Semiconductor examines the technological business and social dynamics behind its innovative products The centerpiece of the book is a collection of documents reproduced in facsimile including the company's first prospectus ideas sketches and plans for the company's products and a notebook kept by cofounder Jay Last that records problems schedules and tasks discussed at weekly meetings A historical overview interpretive essays and an introduction to semiconductor technology in the period accompany these primary documents **Nuclear Science Abstracts**, 1974

Plunkett's Engineering & Research Industry Almanac 2006: The Only Complete Guide to the Business of Research, Development and Engineering Jack W. Plunkett, 2006-05 A complete guide to trends and leading companies in the Engineering and Research business fields design development and technology based research Includes market analysis R D

data and several statistical tables Nearly 400 in depth profiles of Engineering and Research firms     Software Engineering Perspectives in Intelligent Systems Radek Silhavy,Petr Silhavy,Zdenka Prokopova,2020-12-15 This book constitutes the refereed proceedings of the 4th Computational Methods in Systems and Software 2020 CoMeSySo 2020 proceedings Software engineering computer science and artificial intelligence are crucial topics for the research within an intelligent systems problem domain The CoMeSySo 2020 conference is breaking the barriers being held online CoMeSySo 2020 intends to provide an international forum for the discussion of the latest high quality research results     UGC NET Electronic Science Practice Question Answer Sets [Question Bank] Unit Wise As Per Updated Syllabus : Include 4000+ Question Answers DIWAKAR EDUCATION HUB,2021-09-22 UGC NTA NET ELECTRONIC SCIENCE Code 88 4500 Unit Wise Topic Wise Practice Question Answer As Per Updated Syllabus MCQs Highlight 1 Complete Details all Topics Subjects Covered Based on all 10 Units 2 Unit Wise Practice Question and Answer MCQs 450 MCQs of each UNIT Total 4500 MCQs 3 Prepared by Expert Faculty 4 As Per the New Updated Syllabus 5 All Questions With Solutions Explanations For More Details Call in Our Official Number 7310762592     **Plunkett's Infotech Industry Almanac 2006: The Only Complete Guide to the Technologies and Companies Changing the Way the World Thinks, Works and Shar** Jack W. Plunkett,2006 Plunketts InfoTech Industry Almanac presents a complete analysis of the technology business including the convergence of hardware software entertainment and telecommunications This market research tool includes our analysis of the major trends affecting the industry from the rebound of the global PC and server market to consumer and enterprise software to super computers open systems such as Linux web services and network equipment In addition we provide major statistical tables covering the industry from computer sector revenues to broadband subscribers to semiconductor industry production No other source provides this books easy to understand comparisons of growth expenditures technologies imports exports corporations research and other vital subjects The corporate profile section provides in depth one page profiles on each of the top 500 InfoTech companies We have used our massive databases to provide you with unique objective analysis of the largest and most exciting companies in Computer Hardware Computer Software Internet Services E Commerce Networking Semiconductors Memory Storage Information Management and Data Processing We ve been working harder than ever to gather data on all the latest trends in information technology Our research effort includes an exhaustive study of new technologies and discussions with experts at dozens of innovative tech companies Purchasers of the printed book or PDF version may receive a free CD ROM database of the corporate profiles enabling export of vital corporate data for mail merge and other uses     Nanoelectronics Ray Robinson &,2019-05-16 Nanoelectronics is one of the most important technologies of nanotechnology It plays vital role in the field of engineering and electronics Nanoelectronics make use of scientific techniques at atomic scale for developing the nano machines The main target is to reduce the size risk factor and surface areas of the materials and molecules Machines under nanoelectronic process under goes the long range of manufacturing

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**New Technologies** Constantin Volosencu, 2012-03-30 The book New Technologies Trends Innovations and Research presents contributions made by researchers from the entire world and from some modern fields of technology serving as a valuable tool for scientists researchers graduate students and professionals Some practical applications in particular areas are presented offering the capability to solve problems resulted from economic needs and to perform specific functions The book will make possible for scientists and engineers to get familiar with the ideas from researchers from some modern fields of activity It will provide interesting examples of practical applications of knowledge assist in the designing process as well as bring changes to their research areas A collection of techniques that combine scientific resources is provided to make necessary products with the desired quality criteria Strong mathematical and scientific concepts were used in the applications They meet the requirements of utility usability and safety Technological applications presented in the book have appropriate functions and they may be exploited with competitive advantages The book has 17 chapters covering the following subjects manufacturing technologies nanotechnologies robotics telecommunications physics dental medical technologies smart homes speech technologies agriculture technologies and management



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