

# DIGITAL ELECTRONICS:

*A Workbench Guide to  
Circuits, Experiments  
and Applications*

by Robert C. Genn, Jr.

This comprehensive step-by-step handbook gives you crystal-clear, easy-to-understand instructions for building a broad array of integrated circuits. Experimenters, technicians, ham radio operators and even newcomers to digital electronics will discover how to build and troubleshoot nearly every kind of integrated circuit swiftly, easily and confidently.

*Digital Electronics: A Workbench Guide To  
Circuits, Experiments and Applications*

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\$9.95

# Digital Electronics A Workbench Guide To Circuits Experiments And Applications

**Richard H. Berube**



## **Digital Electronics A Workbench Guide To Circuits Experiments And Applications:**

**Digital Electronics** Robert C. Genn,1982     Illustrated Guide to Practical Solid State Circuits-- with Experiments and Projects Robert C. Genn,1983     *Experiments Manual for Digital Electronics* Roger L. Tokheim,2003     Digital Electronics Robert C. Genn,1982     **Subject Guide to Books in Print** ,1996     **Whitaker's Cumulative Book List** ,1983

**Scientific and Technical Books and Serials in Print** ,1989     *The Publishers Weekly* ,1983     Computer Simulated Experiments for Digital Electronics Using Electronics Workbench Richard H. Berube,1999

COMBINATIONAL LOGIC  
CIRCUITS 1 Preliminary Concepts 2 Logic Gates INVERTER OR and AND 3 Logic Gates NAND and NOR 4 Boolean Theorems 5 Universality of NAND and NOR Gates 6 Analyzing Combinational Logic Circuits 7 Simplifying Combinational Logic Circuits 8 Logic Simplification Using Karnaugh Maps 9 Designing Combinational Logic Circuits 10 Troubleshooting Combinational Logic Circuits II ARITHMETIC LOGIC CIRCUITS 11 Logic Gates XOR and XNOR 12 Arithmetic Circuits 13 Parallel Binary Adder 14 BCD Adder 15 Parity Generator Checker 16 Magnitude Comparator 17 Troubleshooting Arithmetic Circuits III MSI LOGIC CIRCUITS 18 Decoders and Encoders 19 Multiplexers and Demultiplexers 20 Troubleshooting MSI Logic Circuits IV SEQUENTIAL LOGIC CIRCUITS 21 S R and D Latches 22 Edge triggered Flip Flops 23 Monostable and Astable Multivibrators 24 Registers and Data Storage 25 Asynchronous Counters 26 Synchronous Counters 27 BCD Counters 28 Troubleshooting Sequential Logic Circuits V INTERFACING THE ANALOG WORLD 29 Digital to Analog Converters 30 Analog to Digital Converters 31 Data Acquisition Appendix A IC Chip Pin Diagrams Appendix B Notes on Using Electronics Workbench Bibliography     *Books in Print* ,1994     Computer Books and Serials in Print ,1985     **Computer Simulated Experiments for Digital Electronics Using Electronics Workbench Multisim** Richard H. Berube,2004-09 This unique and innovative laboratory manual helps users learn and understand circuit analysis concepts by using Electronic Workbench software to simulate actual laboratory experiments on a computer Learners work with circuits drawn on the computer screen and with simulated instruments that act like actual laboratory instruments Circuits can be modified easily with on screen editing and analysis results provide fast accurate feedback Hands on in approach throughout in both interactive experiments and a series of questions about the results of each experiment it is more cost effective safer and more thorough and efficient than using hardwired experiments This For use with any DC AC text     Electronic Servicing Data and Procedures Robert C. Genn,1986     **Paperbound Books in Print** ,1992     Simulations for Digital Electronics Using Electronics Workbench James L. Antonakos,1999 For junior level courses in Digital Electronics Designed to help students perform important and relevant analysis on typical circuit configurations on the computer without the cost of the associated lab equipment this lab manual provides hands on experience in using the virtual instruments of Electronic Workbench to simulate the operation of many typical digital circuits from basic logic gates AND OR inverter through decoders oscillators D A converters and others It features clear multi step procedures supported with screen shots for each step troubleshooting exercises critical thinking

questions and an accompanying disk with all necessary files      **Experiments in Basic Circuits** David M. Buchla,2007  
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## **Table of Contents Digital Electronics A Workbench Guide To Circuits Experiments And Applications**

1. Understanding the eBook Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - The Rise of Digital Reading Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Advantages of eBooks Over Traditional Books
2. Identifying Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Digital Electronics A Workbench Guide To Circuits Experiments And Applications

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Personalized Recommendations
  - Digital Electronics A Workbench Guide To Circuits Experiments And Applications User Reviews and Ratings
  - Digital Electronics A Workbench Guide To Circuits Experiments And Applications and Bestseller Lists
- 5. Accessing Digital Electronics A Workbench Guide To Circuits Experiments And Applications Free and Paid eBooks
  - Digital Electronics A Workbench Guide To Circuits Experiments And Applications Public Domain eBooks
  - Digital Electronics A Workbench Guide To Circuits Experiments And Applications eBook Subscription Services
  - Digital Electronics A Workbench Guide To Circuits Experiments And Applications Budget-Friendly Options
- 6. Navigating Digital Electronics A Workbench Guide To Circuits Experiments And Applications eBook Formats
  - ePub, PDF, MOBI, and More
  - Digital Electronics A Workbench Guide To Circuits Experiments And Applications Compatibility with Devices
  - Digital Electronics A Workbench Guide To Circuits Experiments And Applications Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Highlighting and Note-Taking Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Interactive Elements Digital Electronics A Workbench Guide To Circuits Experiments And Applications
- 8. Staying Engaged with Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Digital Electronics A Workbench Guide To Circuits Experiments And Applications
- 9. Balancing eBooks and Physical Books Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Digital Electronics A Workbench Guide To Circuits Experiments And Applications
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain

- Minimizing Distractions
- Managing Screen Time
- 11. Cultivating a Reading Routine Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Setting Reading Goals Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Fact-Checking eBook Content of Digital Electronics A Workbench Guide To Circuits Experiments And Applications
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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