

EXPERIEMENT NO. 1

Simulation using all the modeling styles and Synthesis of all the logic gates using Verilog HDL

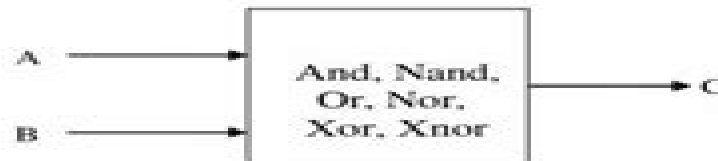
AIM:

Perform Zero Delay Simulation of all the logic gates written in behavioral, dataflow and structural modeling style in Verilog using a Test bench. then, Synthesize each one of them on two different EDA tools.

Electronics Design Automation Tools used:

- i) FPGA Advantage 3.1 (includes Model Sim simulation tool and Leonardo Spectrum Synthesis Tool)
- ii) Xilinx Project Navigator 8.1 (Includes all the steps in the design flow from Simulation to Implementation to download onto FPGA).

Block Diagram:



Truth table:

And Gate:

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

Nand Gate:

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

Xor Gate:

Or Gate:

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

Nor Gate:

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

Xnor Gate:

Arun Kumar Vhdl Lab Manual

Victor M. Corman



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Table of Contents Arun Kumar Vhdl Lab Manual

1. Understanding the eBook Arun Kumar Vhdl Lab Manual
 - The Rise of Digital Reading Arun Kumar Vhdl Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Arun Kumar Vhdl Lab Manual
 - 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 Arun Kumar Vhdl Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Arun Kumar Vhdl Lab Manual
 - Personalized Recommendations
 - Arun Kumar Vhdl Lab Manual User Reviews and Ratings
 - Arun Kumar Vhdl Lab Manual and Bestseller Lists
5. Accessing Arun Kumar Vhdl Lab Manual Free and Paid eBooks

- Arun Kumar Vhdl Lab Manual Public Domain eBooks
- Arun Kumar Vhdl Lab Manual eBook Subscription Services
- Arun Kumar Vhdl Lab Manual Budget-Friendly Options
- 6. Navigating Arun Kumar Vhdl Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Arun Kumar Vhdl Lab Manual Compatibility with Devices
 - Arun Kumar Vhdl Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Arun Kumar Vhdl Lab Manual
 - Highlighting and Note-Taking Arun Kumar Vhdl Lab Manual
 - Interactive Elements Arun Kumar Vhdl Lab Manual
- 8. Staying Engaged with Arun Kumar Vhdl Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Arun Kumar Vhdl Lab Manual
- 9. Balancing eBooks and Physical Books Arun Kumar Vhdl Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Arun Kumar Vhdl Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Arun Kumar Vhdl Lab Manual
 - Setting Reading Goals Arun Kumar Vhdl Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Arun Kumar Vhdl Lab Manual
 - Fact-Checking eBook Content of Arun Kumar Vhdl Lab Manual
 - 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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