

Practical 1

Date: 3rd Jan.

Aim: To Study about Microwind tool and λ (Lambda) Rules for Layout Generation.

Objective:

1. To be familiar with tool.
2. To learn about λ (Lambda) Rules for 90 nm Technology.

Microwind Getting Started:

The present experiment is a guide to using the « **Microwind** » educational software on a PC computer.

The MICROWIND program allows the student to design and simulate an integrated circuit. The package itself contains a library of common logic and analog ICs to view and simulate. MICROWIND includes all the commands for a mask editor as well as new original tools never gathered before in a single module. You can gain access to *Circuit Simulation* by pressing one single key. The electric extraction of your circuit is automatically performed and the analog simulator produces voltage and current curves immediately.

A specific command displays the characteristics of pMOS and nMOS, where the size of the device and the process parameters can be very easily changed. Altering the MOS model parameters and, then, seeing the effects on the V_d and I_d curves constitutes a good interactive tutorial on devices.

The *Process Simulator* shows the layout in a vertical perspective, as when fabrication has been completed. This feature is a significant aid to supplement the descriptions of fabrication found in most textbooks.

The *Logic Cell Compiler* is a particularly sophisticated tool enabling the automatic design of a CMOS circuit corresponding to your logic description in VERILOG. The DSCH software, which is a user-friendly schematic editor and a logic simulator presented in a companion manual, is used to generate this Verilog description. The cell is created in compliance with the environment, design rules and fabrication specifications.

A set of CMOS processes ranging from 1.2 μ m down to state-of-the-art 0.25 μ m are proposed.

To use the MICROWIND program use the following procedure:

- ❶ Go to the directory in which the software has been copied

Microwind Lab Manual

JR Anderson



Microwind Lab Manual:

The book delves into Microwind Lab Manual. Microwind Lab Manual is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Microwind Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Microwind Lab Manual
- Chapter 2: Essential Elements of Microwind Lab Manual
- Chapter 3: Microwind Lab Manual in Everyday Life
- Chapter 4: Microwind Lab Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Microwind Lab Manual. The first chapter will explore what Microwind Lab Manual is, why Microwind Lab Manual is vital, and how to effectively learn about Microwind Lab Manual.
3. In chapter 2, this book will delve into the foundational concepts of Microwind Lab Manual. The second chapter will elucidate the essential principles that must be understood to grasp Microwind Lab Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Microwind Lab Manual in daily life. The third chapter will showcase real-world examples of how Microwind Lab Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Microwind Lab Manual in specific contexts. This chapter will explore how Microwind Lab Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Microwind Lab Manual. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Microwind Lab Manual.

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