Pre-Laboratory #Latches and Flip-Flops

ECE 332

1 Introduction

This pre-lab is divided into two parts. Part one consists of reading assignment. You can use the prescribed textbook or the Internet to complete this part. In the second part of the lab you will answer questions on the reading assignment.

Part 1

2 Reading Assignment

Please use the prescribed textbook or any other resources and learn about the following storage elements.

1. Gated S-R Latch
2. J-K Flip-Flop
3. D Flip-Flop
4. T Flip-Flop

Part 2

3 Questions on Reading Assignment

Answer the following Questions

- What is a Latch?
- What is a Flip-Flop?
• Draw the circuit diagram and truth table for
  1. Gated S-R Latch
  2. J-K Flip-Flop
  3. D Flip-Flop