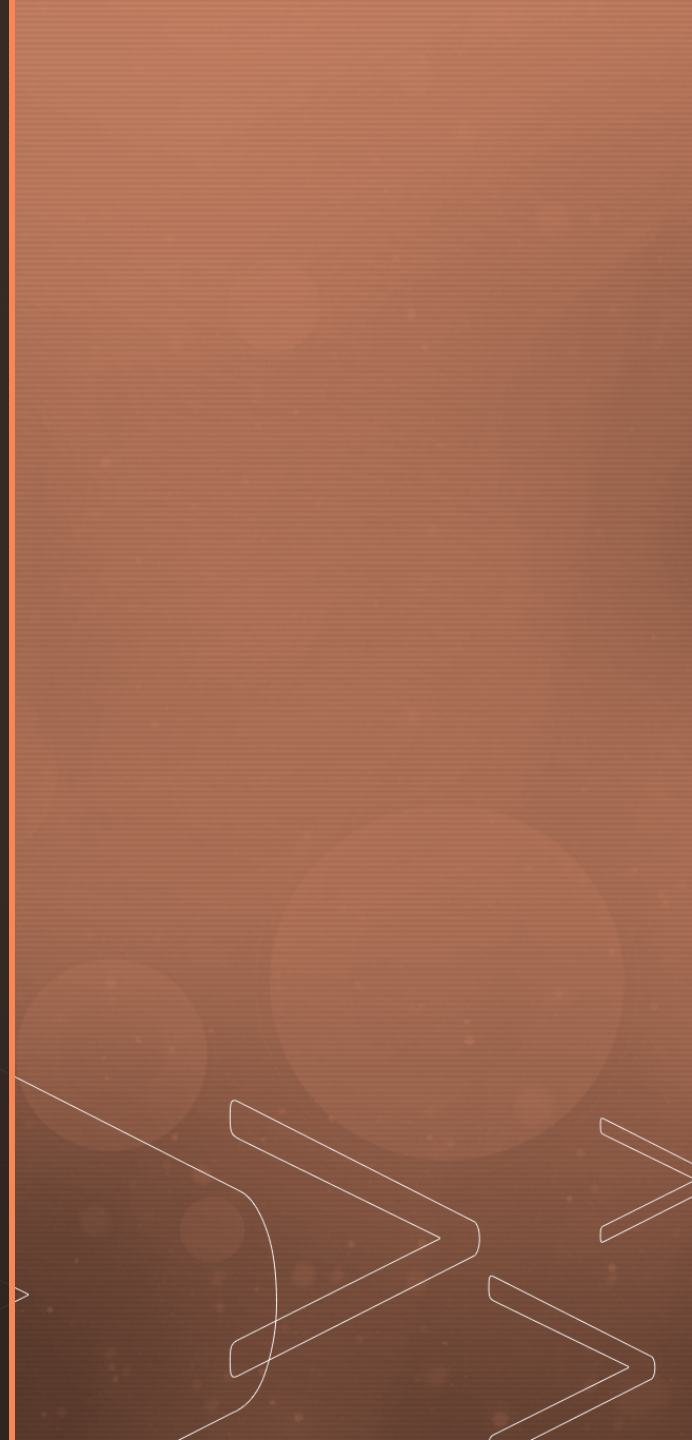


Class Notes – Jeanie Hess



Digital Fundamentals



Digital Fundamentals

Lecture 1

- Lecture 1a – Slide 20
 - Excel spread sheet that sums two decimal numbers converts to binary and back to binary.
- Lecture 1b – Slide 2
 - Excel spread sheet that uses columns of numbers to convert decimal to hexadecimal.
- Lecture 1b – Slide 5
 - Excel spread sheet concentrated columns to convert from binary to decimal.
- Lecture 1b – Slide 8
 - MultiSim simulated the differences between high and low voltage.

Digital Fundamentals

Lecture 3

- Lecture 3a
 - Excel spread sheet truth table for various logic gates.
- Lecture 3a – Slide 13
 - MultiSim simulation displaying how the Not gate works.
- Lecture 3 – Slide 16
 - Excel spread sheet showing outputs of for two input logic gates.
- Lecture 3 – Slide 16b
 - MultiSim simulation displaying results for OR gates followed by Not gates.

Digital Fundamentals

Lecture 4

- Lecture 4 – Slide 16
 - Excel sheet showing two input Karnaugh Map
- Lecture 4 – Slide 17
 - Excel sheet showing a four input Karnaugh Map
- Lecture 4 – Slide 20
 - Excel sheet showing a three input conversion to a Karnaugh Map
 - MultiSim showing how to use Karnaugh maps to reduce a circuit with many logic gates.

Theorem were provided as a Midterm and Lecture 2 was provided as a lab