Lecture 2: Part II

Circuits Continued

Joel Weingarten
Homework

Make up (and solve) your own example circuit that minimally requires the solving of three equations and three unknowns.
Voltage Divider

\[ V_{out} = \frac{R_2}{R_1 + R_2} \cdot V_{in} \]
Comparator

When $V_1 > V_2$ the output is set to high ($V_{cc}$) otherwise the output is set to low.
Comparator Continued
Open Drain

![Comparator Diagram]
1.) What is an Inductor?
2.) What’s a Capacitor?
3.) How does an RLC circuit work
4.) How do RLC’s relate to MSD’s