

E151 Lecture 2 Handout

How do you make a Thevenin model of a circuit?

Why are linear circuits called linear? How do they relate to linear algebra?

How do you make a Thevenin model of a circuit containing inductors or capacitors?

What is a passive network?

What two things must be true of a network for it to be modeled as a 2 port?

What are the four terminal variables in a 2 port network?

How do we avoid doing two port modeling?

Write down the initial and final value theorems

What are two quick methods for finding the dynamics of a circuit?

How do Thevenin models relate to time constants? What is the constraint on this relationship?

What is the average value of an output node driven by a capacitively coupled voltage source?

What is capacitive feedthrough? Does it describe a time or frequency domain phenomenon?

What is a capacitive divider