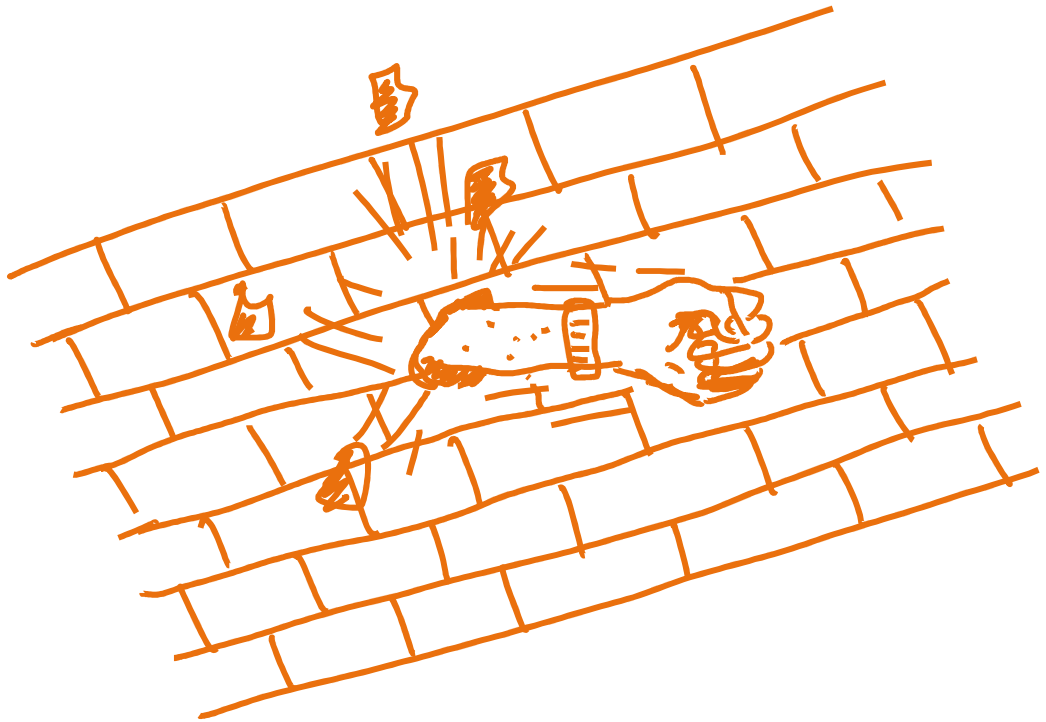
6.002x CIRCUITS AND ELECTRONICS

Violating the Abstraction Barrier

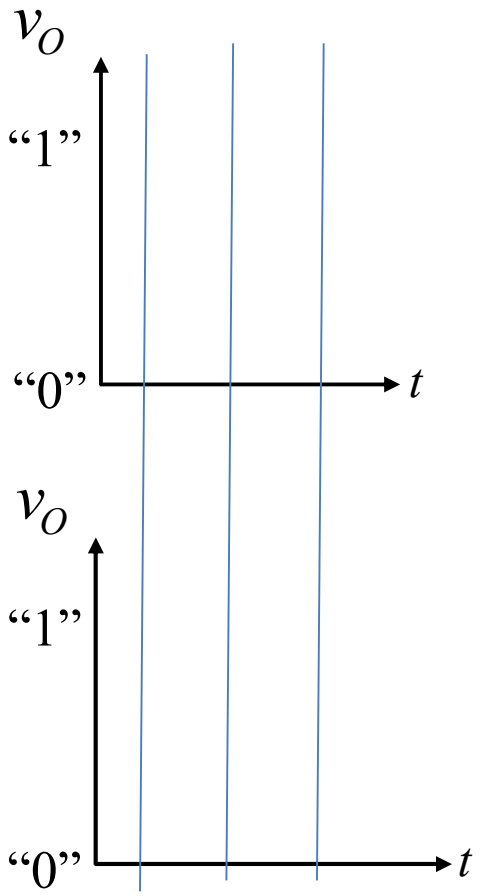


Case 1: The Double Take

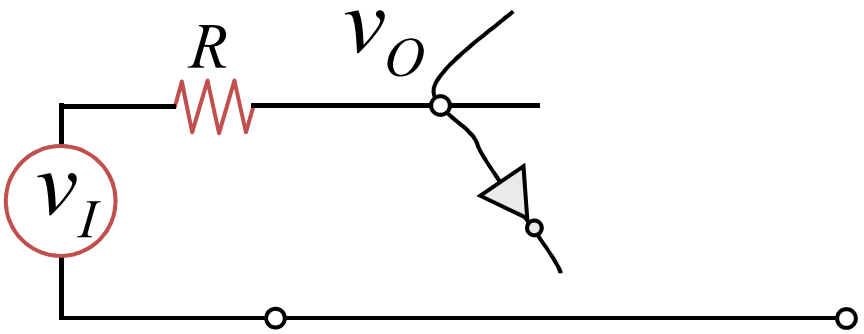
Case 1: The Double Take

Problem

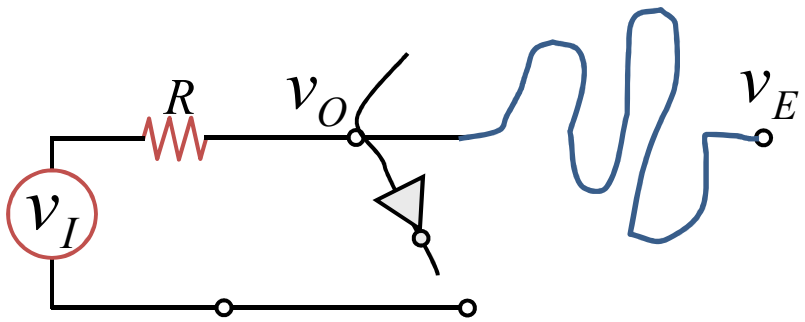


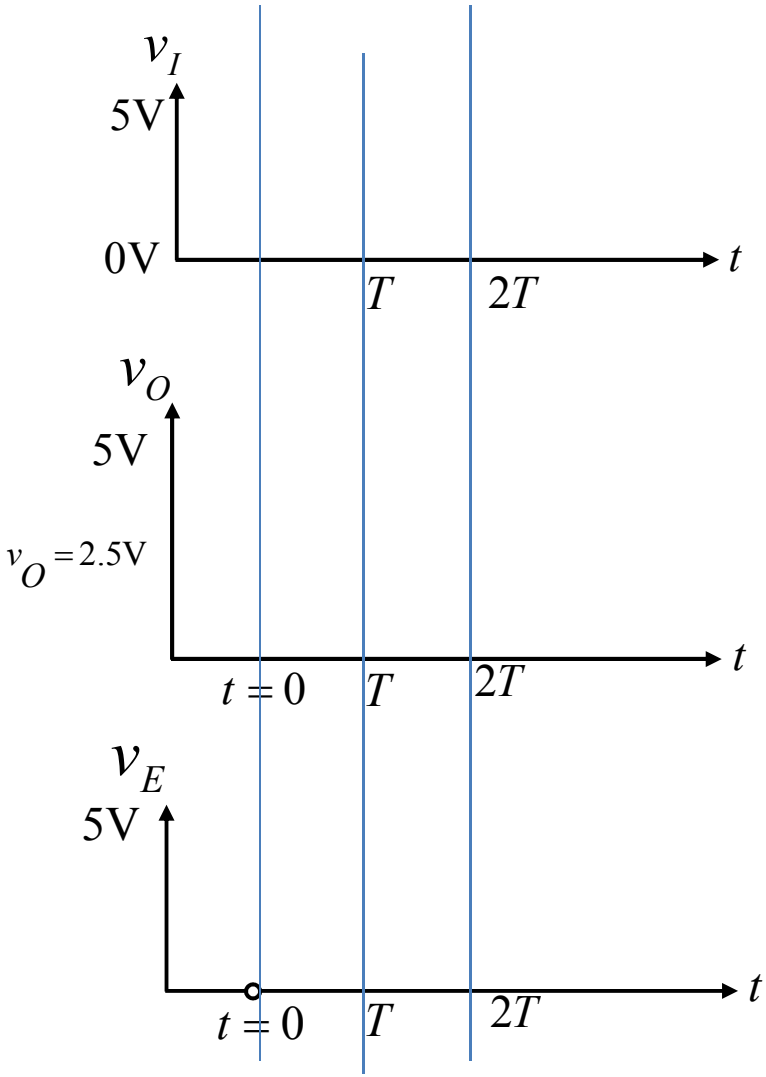


1(a) DC case

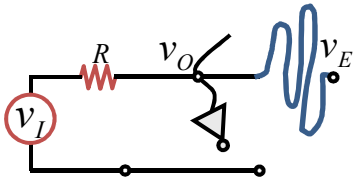


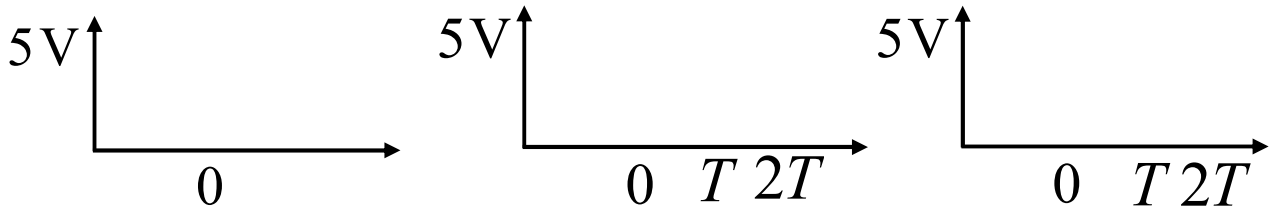
1(b) Step



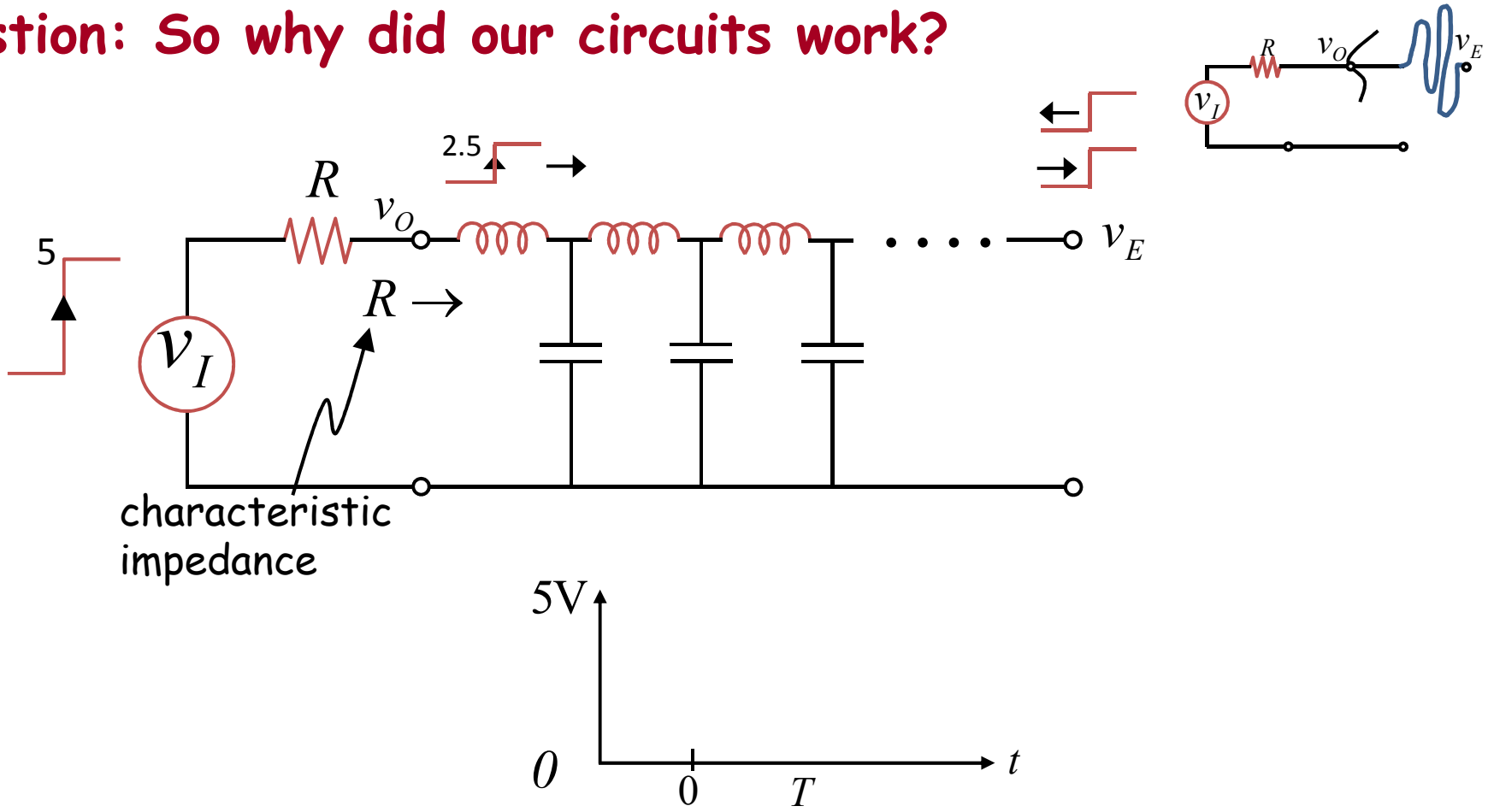


What's going on

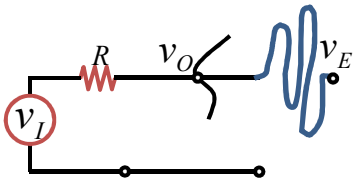


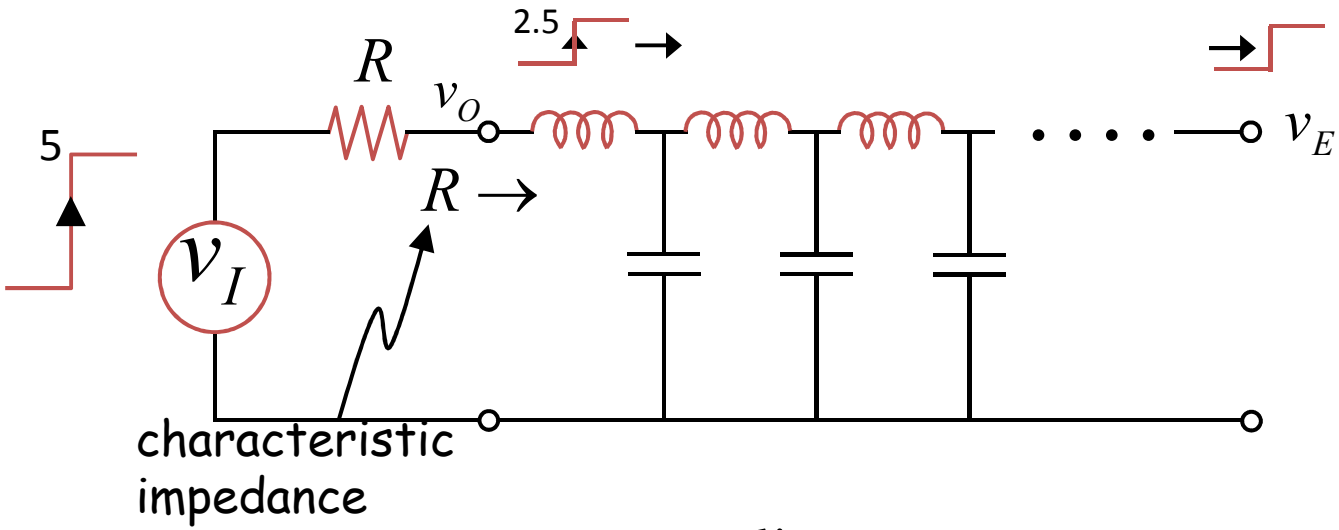


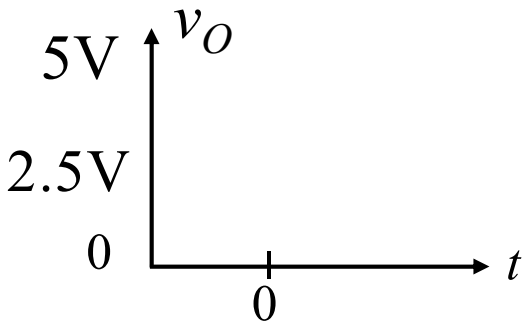
Question: So why did our circuits work?



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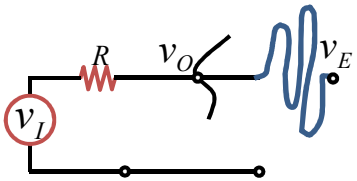


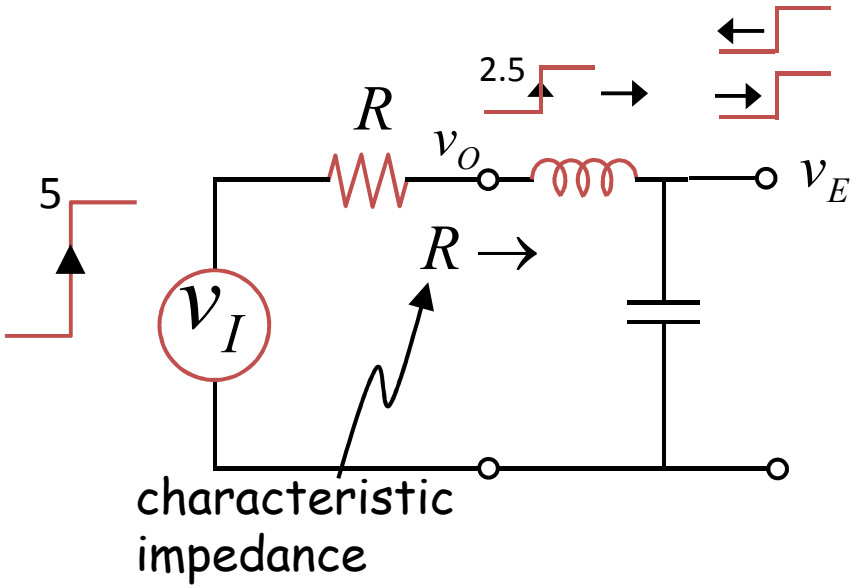


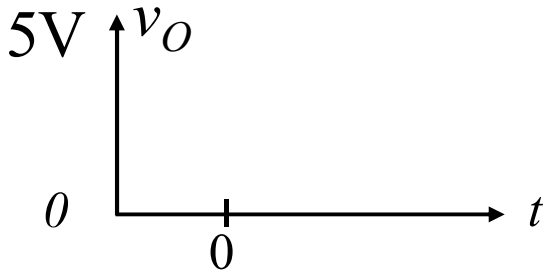


DEMO
add R at the end

Question: So why did our circuits work?







DEMO
use small wire

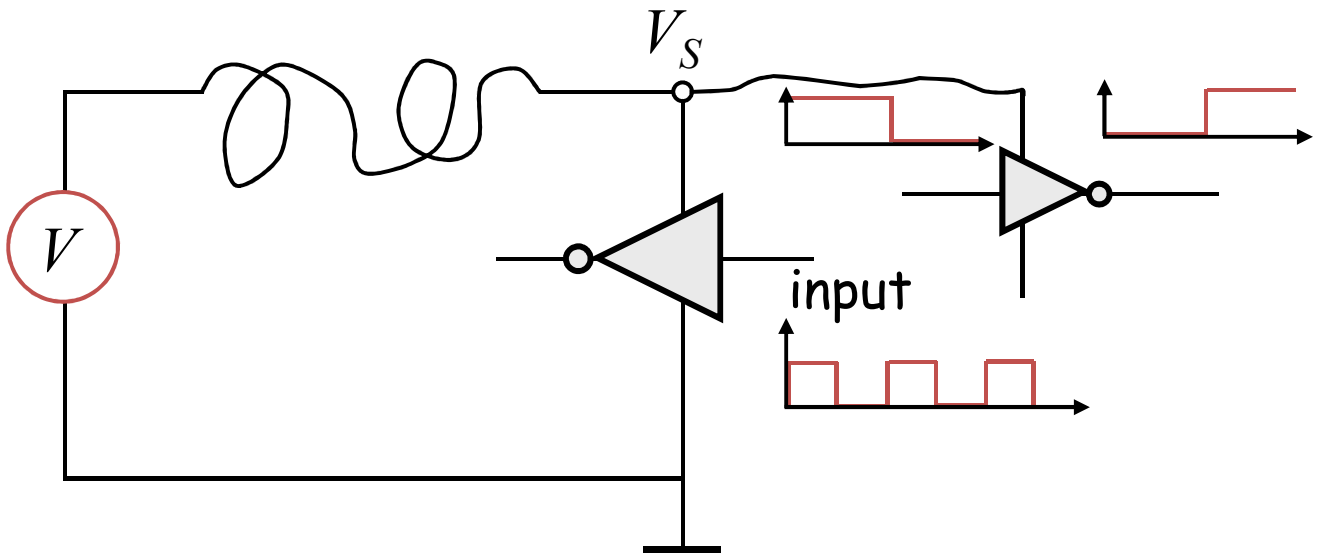
Case 2: The Double Dip

Case 2: The Double Dip

The situation

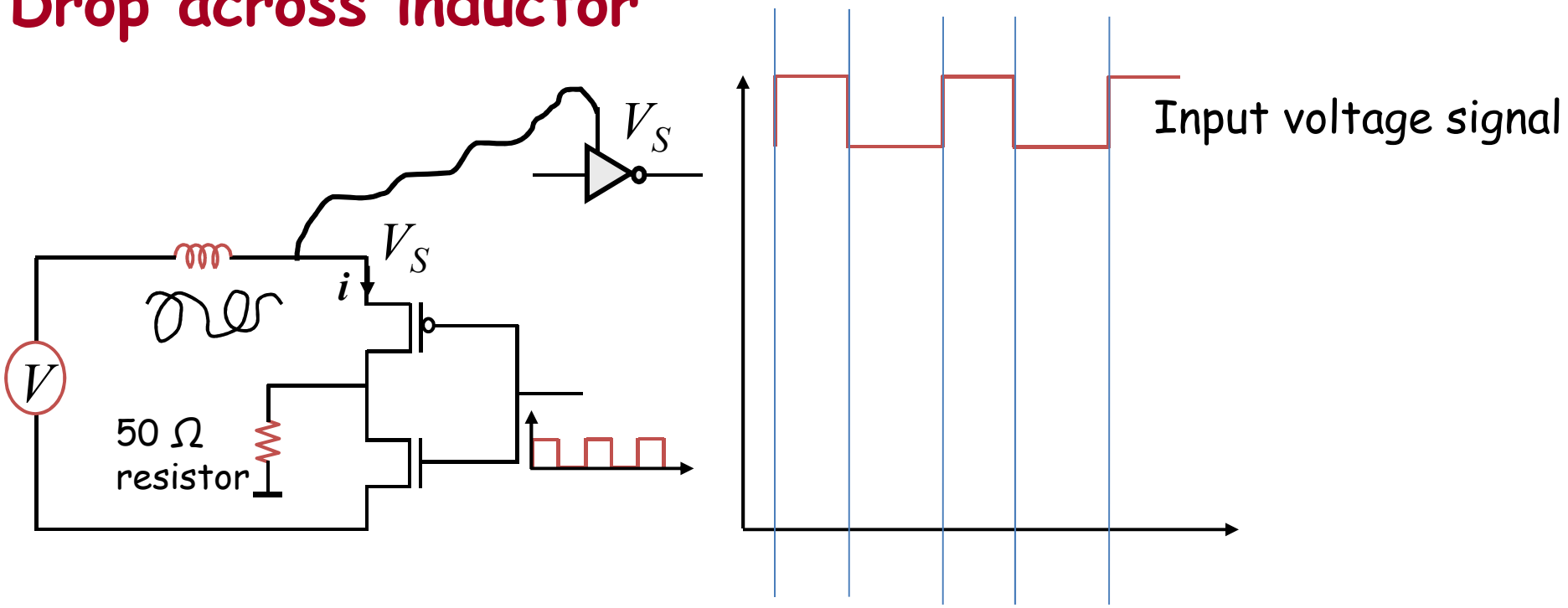
Case 2: The Double Dip

Problem → strange spikes on supply when we add a load resistor



Why?

Drop across inductor



Drop across inductor

