



Faculty of Engineering and Technology Electrical and Computer Engineering Department

ENEE2102 CIRCUITS LAB

Student's name: Anas abedelhalim tomaizeh

Student's number: 1152325

Pre lab exp#4

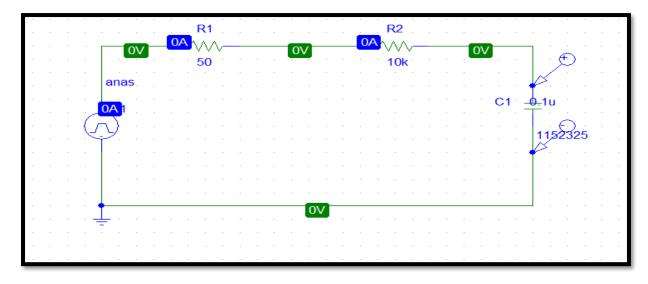
Date 11/10/2017

Eng.: Qais samara

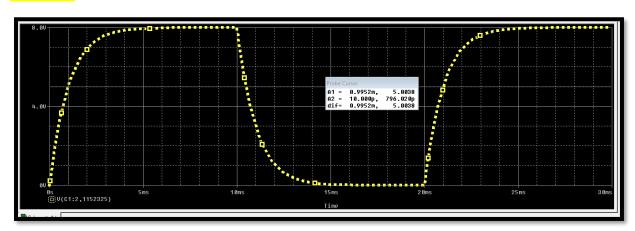
Dr: Hakam shehada

Part one: step response for first order RC circuit:

The circuit:

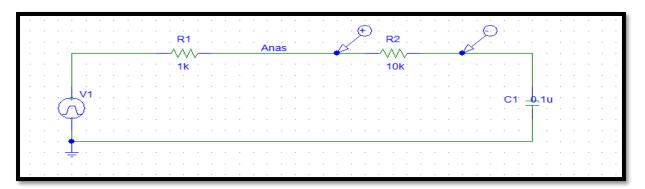


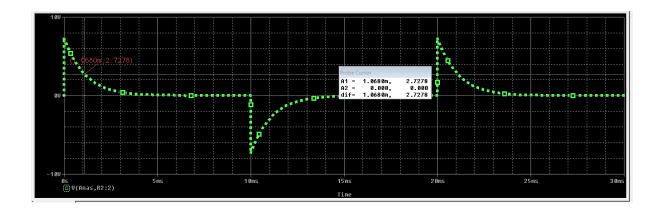
The result:



*From the graph, shown above the value of time constant is 1ms.

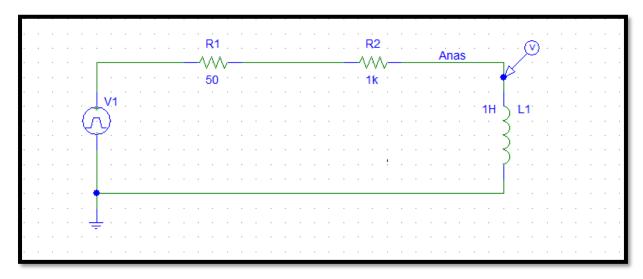
The circuit:

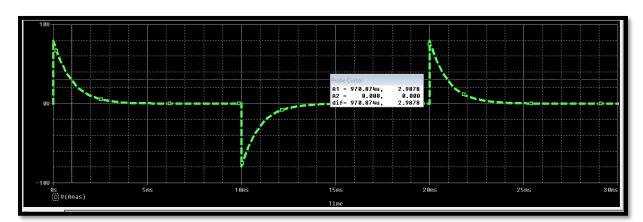




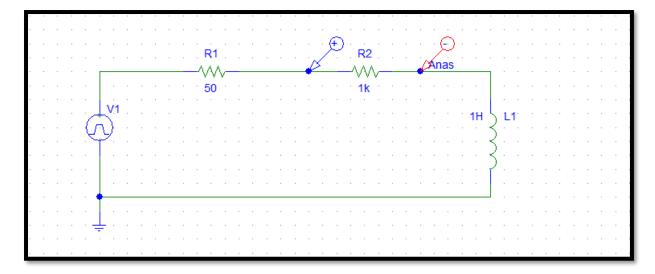
Part two: Step response of First-order RL circuit:

The circuit:

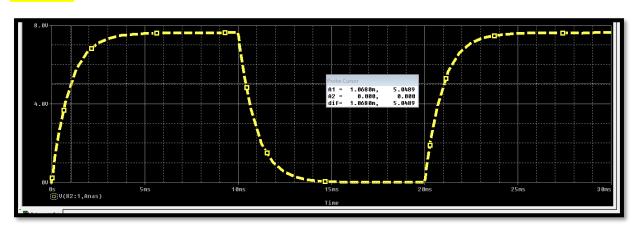




The circuit:

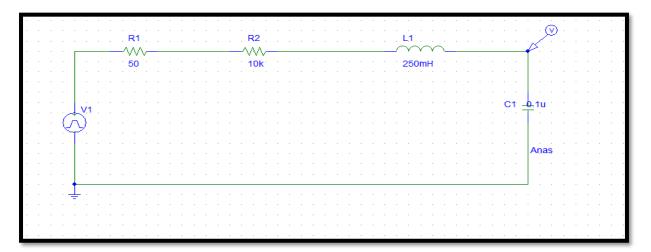


The result:

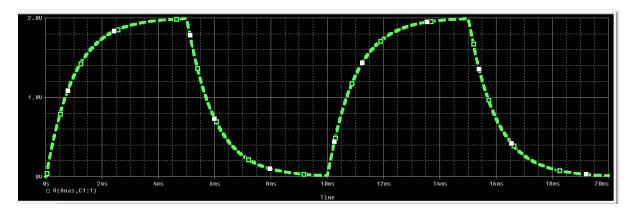


Part c: Step response of second-order Series RLC circuit:

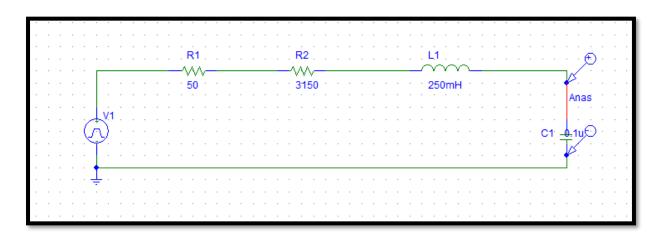
1) The circuit:

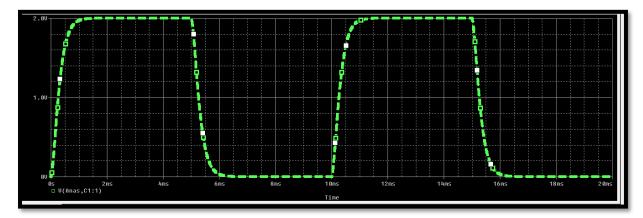


The result:

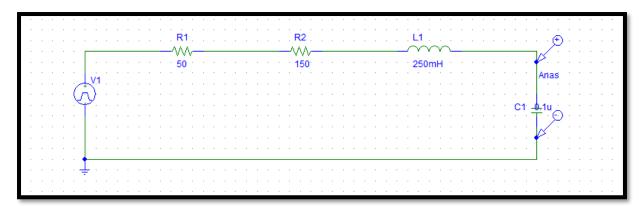


2) The circuit:

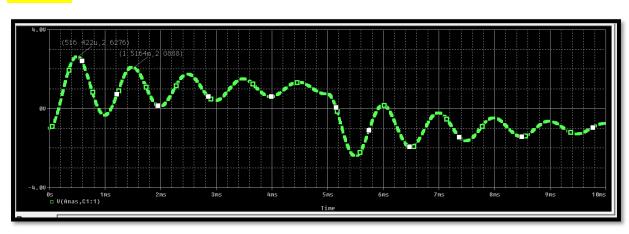




3) The curcuit:

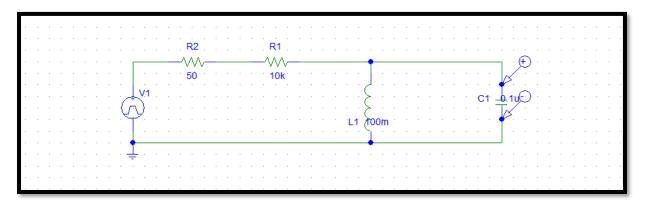


The result:

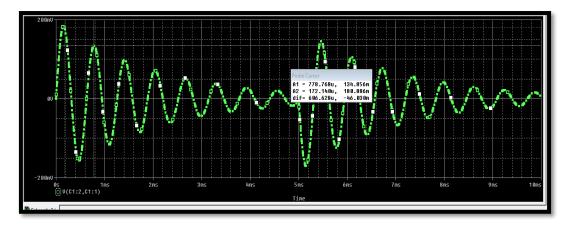


Part D: Step response of second-order parallel RLC circuit

The circuit:



The result:



The circuit:

