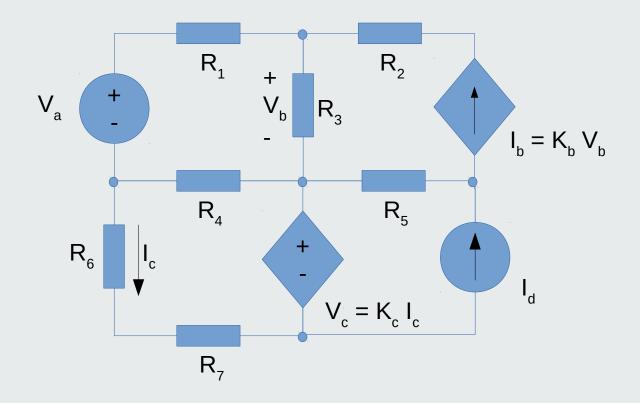


## Circuit Theory and Electronics Fundamentals

Lab 1: Circuit analysis methods



## Consider the following circuit





## **Analysis**

- Run the supplied Python script, t1\_datagen.m, to get the circuit data
- Theoretical analysis:
  - Analyze the circuit using the mesh method
  - Analyze the circuit using the nodal method
- Simulate the circuit using Ngspice
- Compare theoretical and simulation results and explain why they are the same or why they may have small differences