Circuit Diagrams in LaTeX - Using Circuitikz

Martin Maina

Jkuat

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Introduction

Add neat circuit diagrams to your paper with Circuitikz, extending Tikz with electric components.
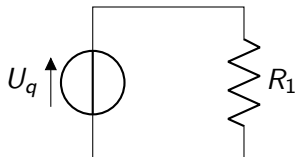
Circuitikz Example

Figure: My first circuit.

Drawing Circuits with Circuitikz

- The circuit is drawn using the same syntax as Tikz.
- Special options are specified for the circuit elements.
- For example, to draw a voltage source, use `to[V,v=`U_q`]`.
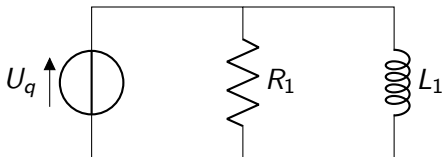- To draw a resistor, use `to[R=`R_1`]`.

Adding More Elements

Figure: Circuit with inductor.
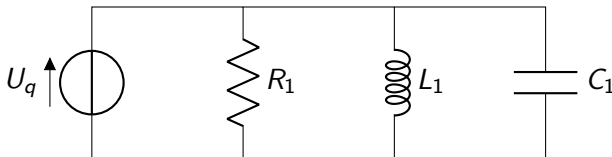
Adding More Elements (contd.)

Figure: Circuit with inductor and capacitor.

Conclusion

The Circuitikz package allows you to create circuit