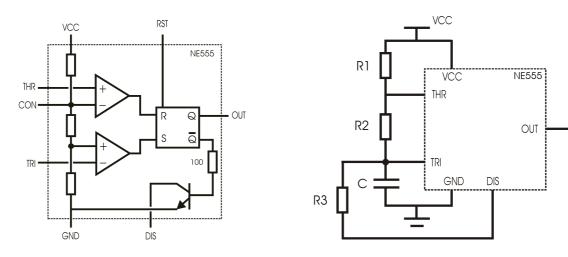
Electronic Instrumentation Problem sheet: NE555

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A popular timing component is the NE555 (see image below on the left), which internally is based on two comparators and a flip-flop. With this component, a multitude of useful circuits can be made.



An example is an astable circuit (resonator), which is made by placing two resistances and a capacitor in series at the entrances, which results in a periodic binary signal at the output.

• Explain how the circuit works and design a resonator operating at 1 kHz based on a NE555 IC.

(http://www.uoguelph.ca/~antoon/gadgets/555/555.html)