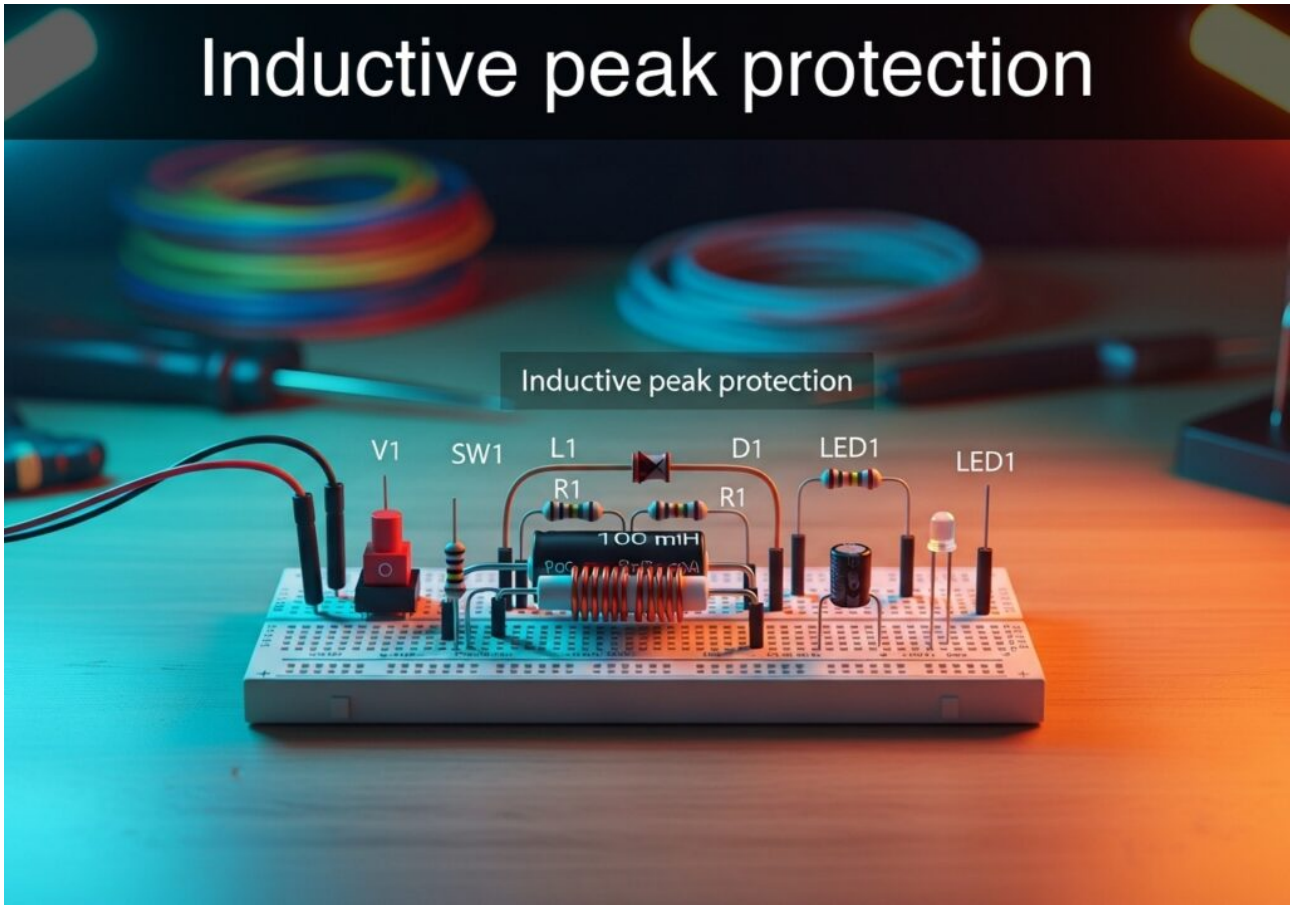
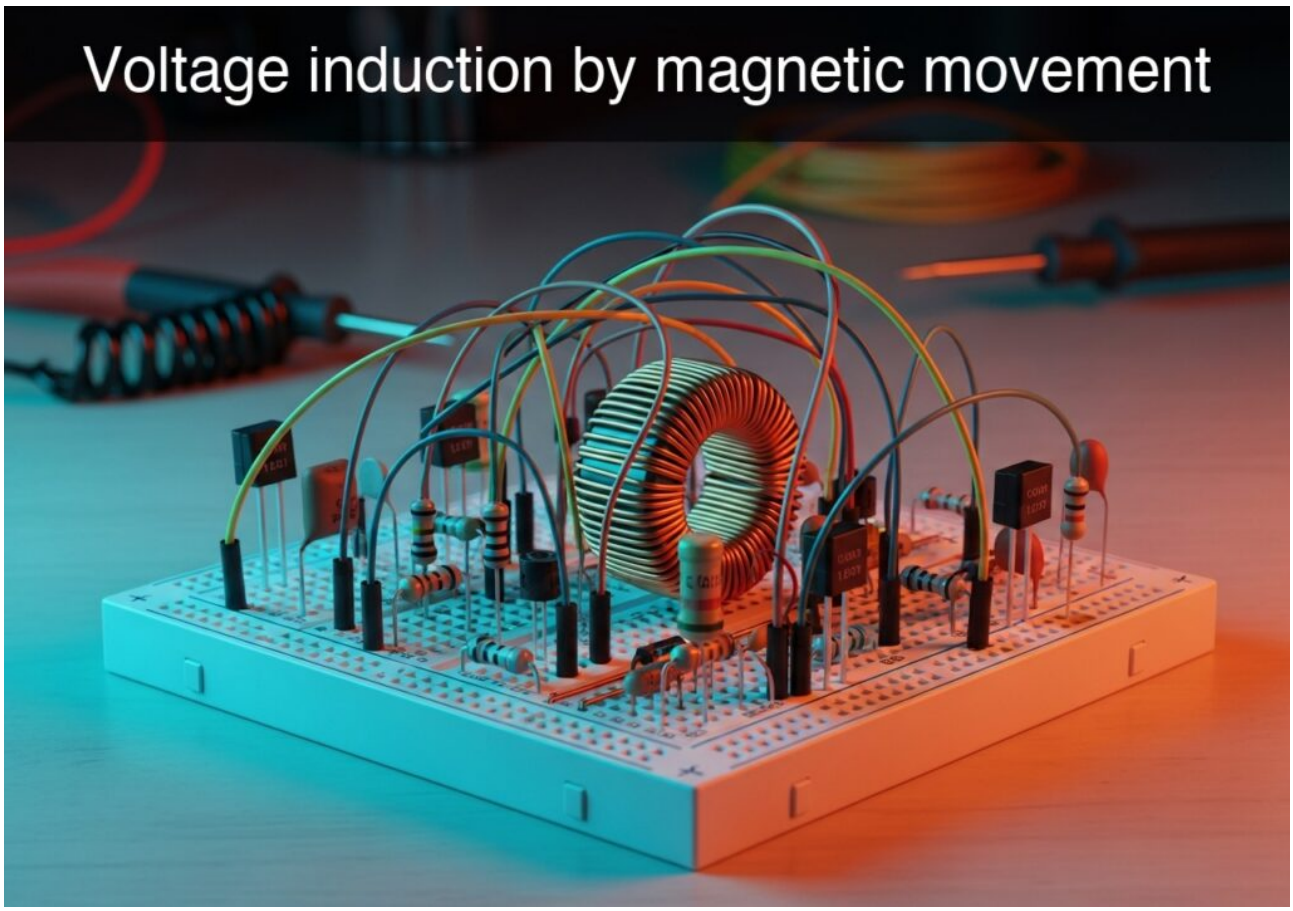
Practical case: Inductive peak protection



Level: Medium | Objective: Analyze the transient voltage generated when disconnecting an inductor and mitigate it using a flyback diode.

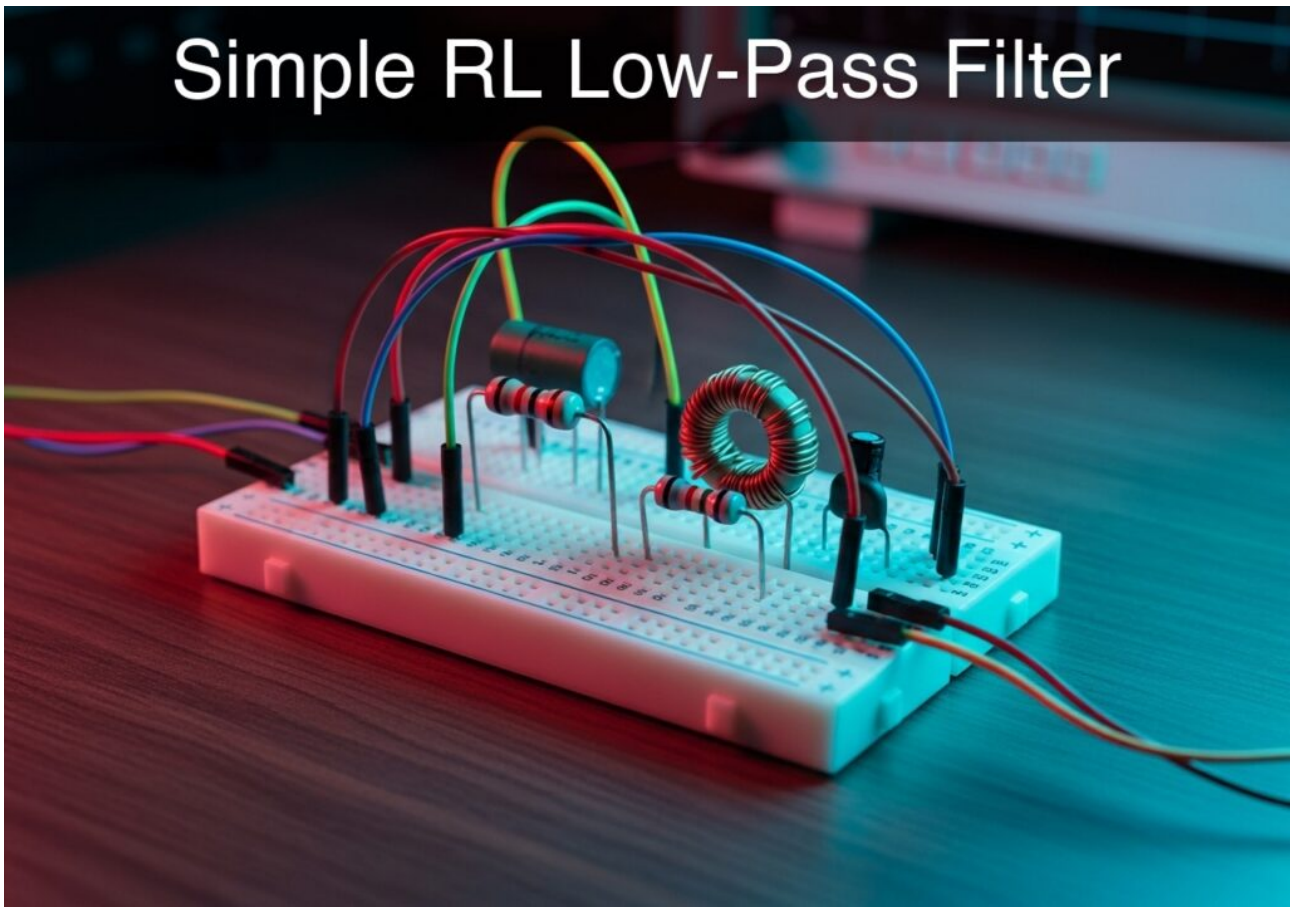
Objective and use…

Practical case: Voltage induction by magnetic movement



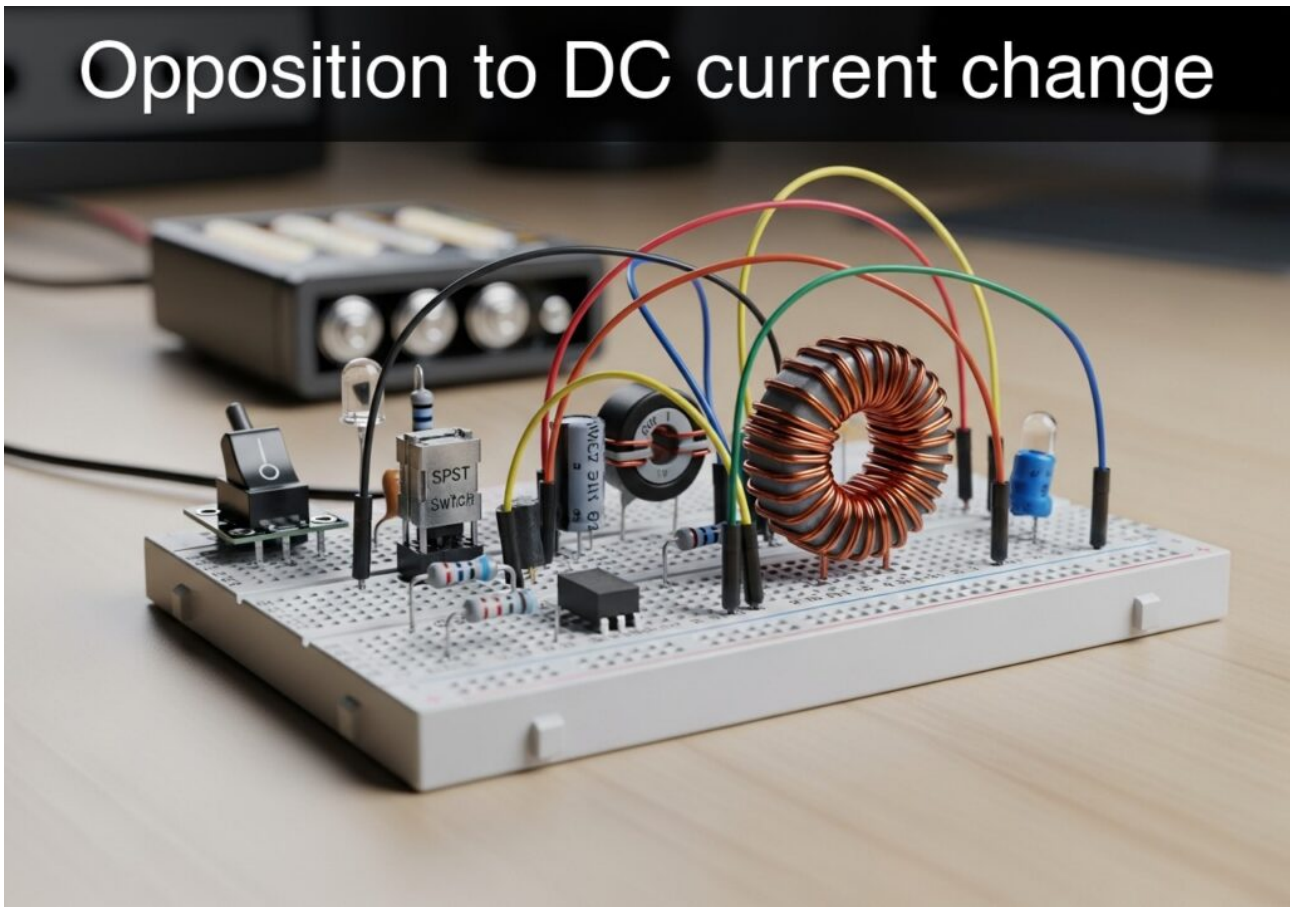
Learn Analog Electronics by building a generator with an Inductor and a magnet. Observe real voltage spikes and light an LED using Faraday’s Law of Induction.

Practical case: Simple RL Low-Pass Filter



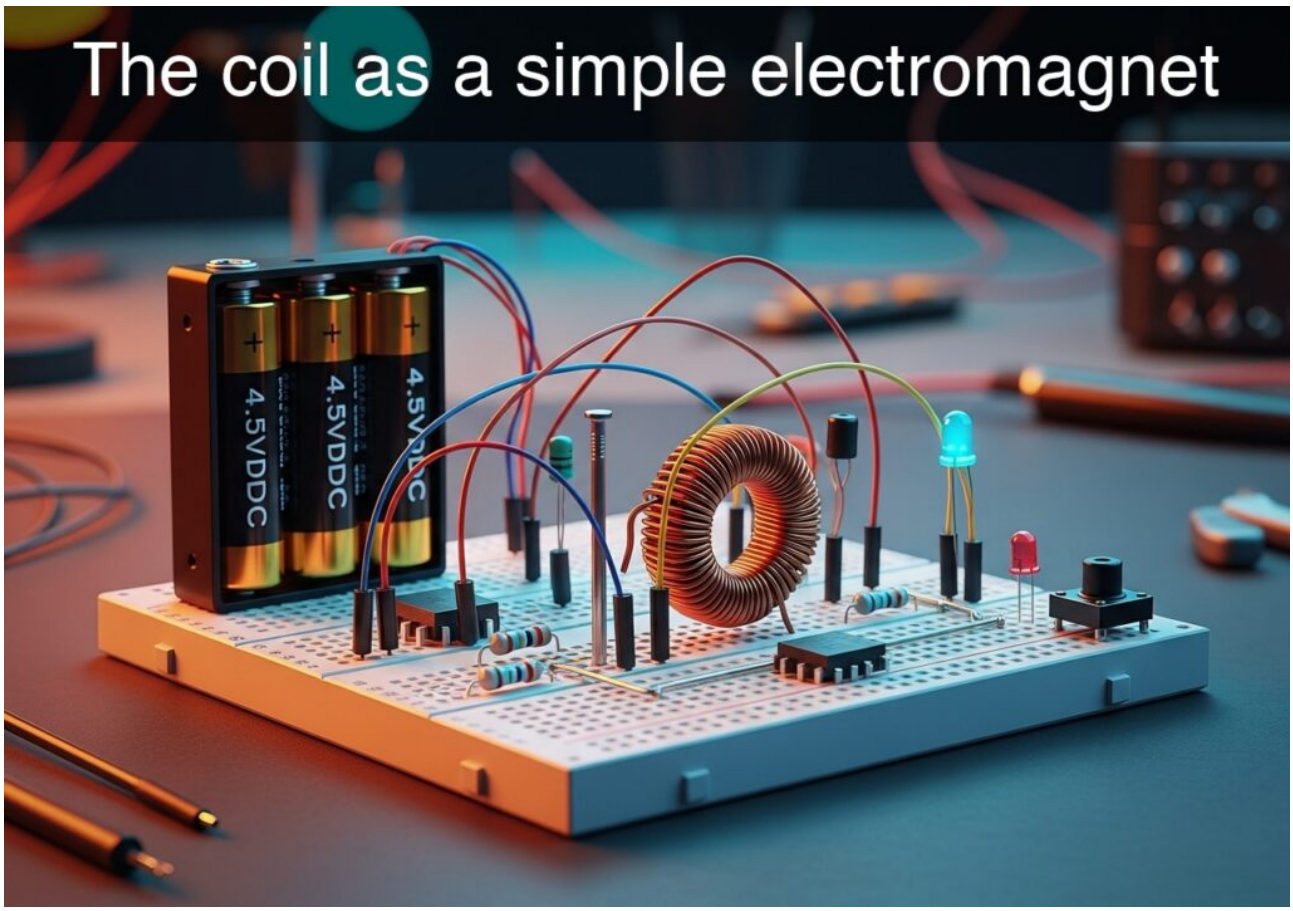
Master Analog Electronics by building an RL low-pass filter with an Inductor. Observe signal attenuation and block high frequencies to reduce noise effectively.

Practical case: Opposition to DC current change



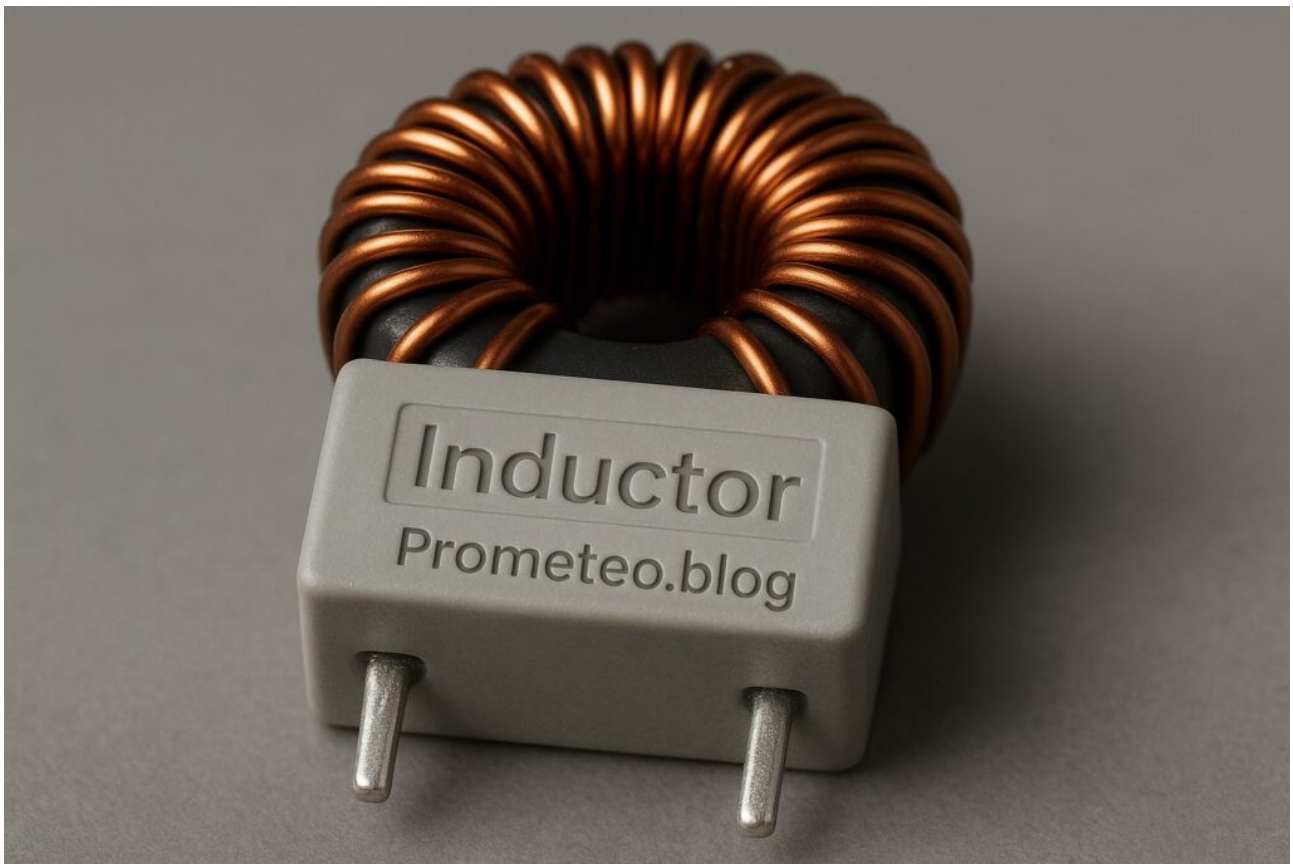
Master Analog Electronics by building a soft-start circuit with an Inductor. Visualize current delay as a lamp gradually brightens to limit inrush current.

Practical case: The coil as a simple electromagnet



Master Analog Electronics by building a powerful electromagnet using a simple Inductor. Learn to control magnetic fields and lift metal objects with DC current.

Micro Tutorial: Inductor



Explore the role of inductors in electronics, their applications, and learn how to build a project showcasing their importance in circuit design.