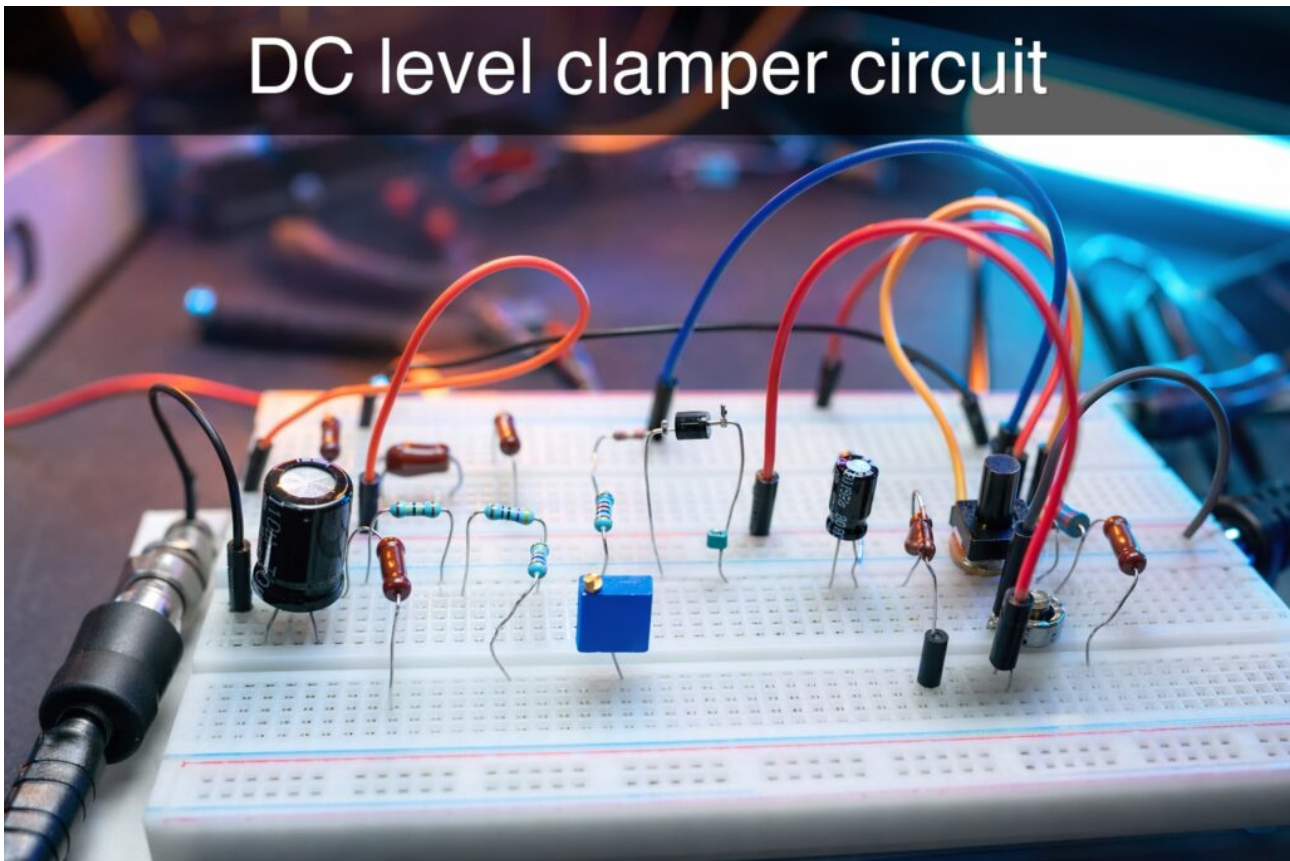


Practical case: DC level clamber circuit

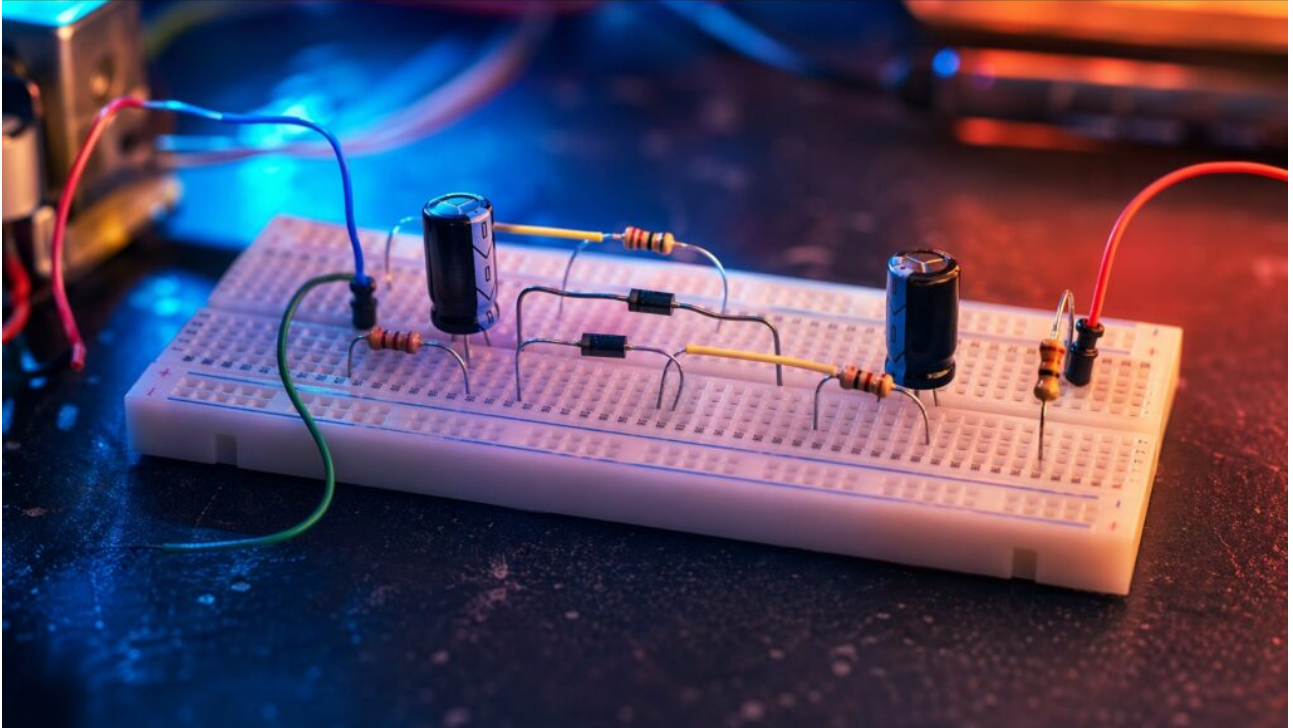


Level: Medium | Understand the shifting of the DC level of an AC signal using a diode and a capacitor.

Objective and use case
You will build a positive...

Practical case: Half-wave voltage doubler

Half-wave voltage doubler

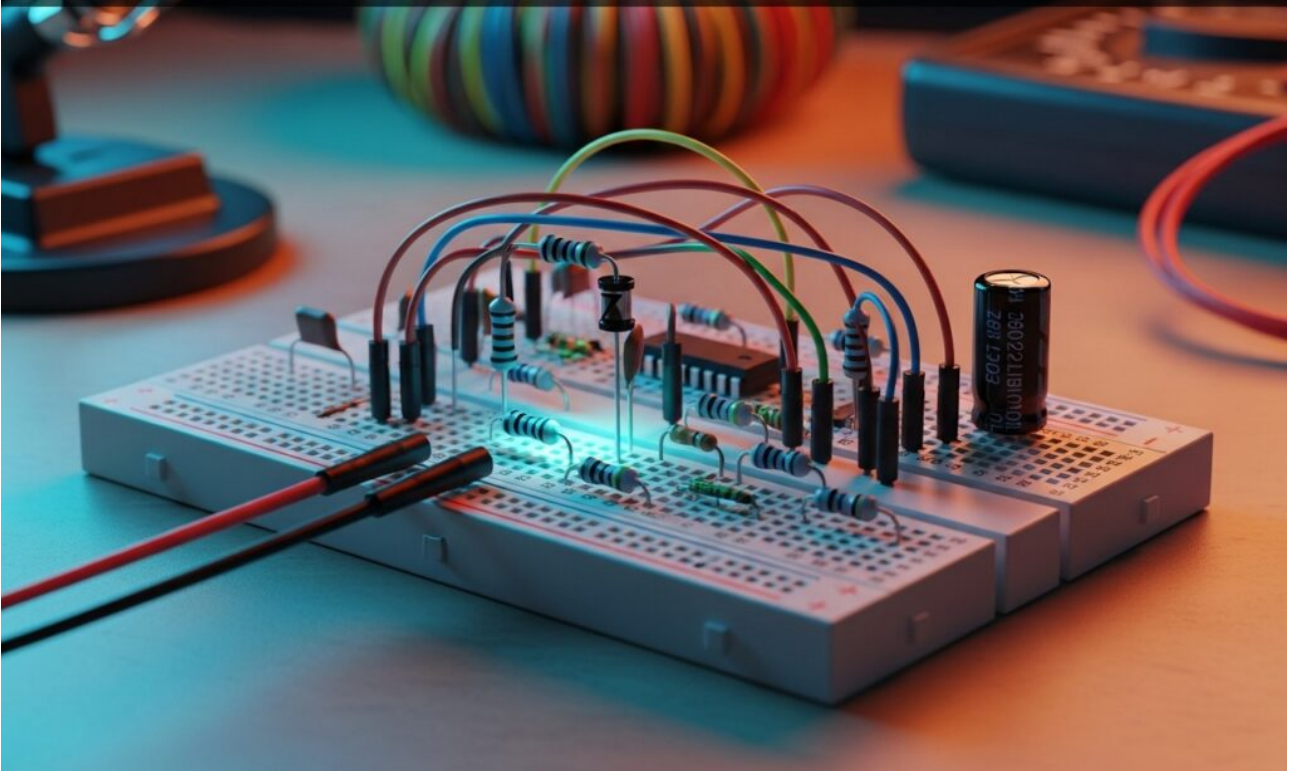


Level: Medium | Objective: Analyze and assemble a voltage doubler circuit to increase the peak voltage of an AC signal.

Objective and use case
In this...

Practical case: Zener Diode as a Voltage Regulator

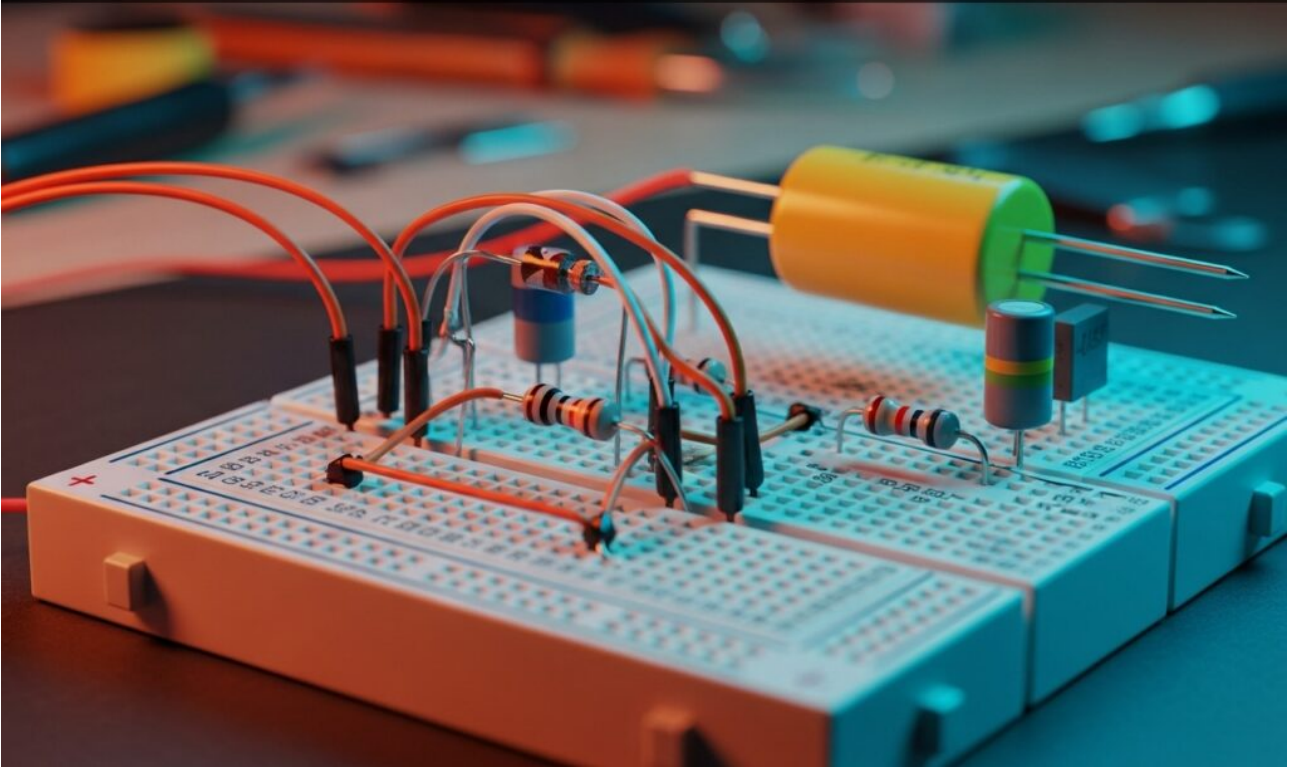
Zener Diode as a Voltage Regulator



Master Analog Electronics by designing a Zener Diode voltage stabilizer. Build a circuit to clamp output at 5.1V and protect loads from voltage spikes.

Practical case: Full-wave bridge rectifier

Full-wave bridge rectifier



Master Analog Electronics by building a Diode Graetz bridge. Convert AC to pulsating DC, double the frequency to 120Hz, and measure real voltage drops.