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transistor wikipedia May 11 2021 a transistor is a semiconductor device used to amplify or switch electrical signals and power the transistor is one of the basic building blocks of modern electronics it is composed of semiconductor material usually with at least three terminals for connection to an electronic circuit a voltage or current applied to one pair of the transistor s terminals controls the

tesla coil wikipedia Oct 24 2019 a tesla coil is an electrical resonant transformer circuit designed by inventor nikola tesla in 1891 it is used to produce high voltage low current high frequency alternating current electricity tesla experimented with a number of different configurations consisting of two or sometimes three coupled resonant electric circuits tesla used these circuits to conduct

half wave rectifier circuit diagram theory applications Nov 05 2020 24 02 2012 a rectifier is a device that converts alternating current ac to direct current dc it is done by using a diode or a group of diodes half wave rectifiers use one diode while a full wave rectifier uses multiple diodes the working of a half wave rectifier takes advantage of the fact that diodes only allow current to flow in one direction

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lithium ion battery wikipedia Sep 03 2020 lithium ions move through the electrolyte electrons move through the external circuit and then they recombine at the cathode together with the cathode material in a reduction half reaction the electrolyte and external circuit provide conductive media for lithium ions and electrons respectively but do not partake in the electrochemical reaction during discharge electrons

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