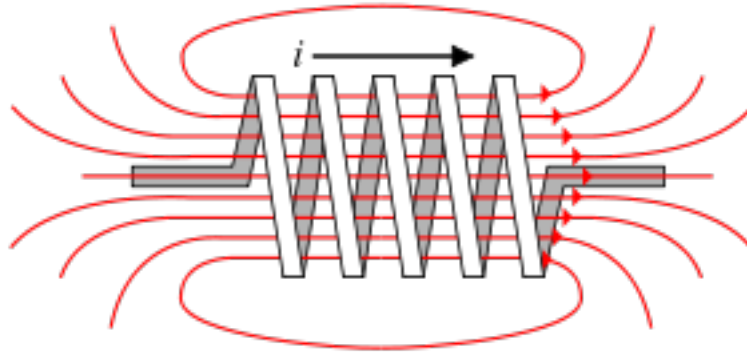


# Engineering Technology Electricity / Electronics

## Inductors

An \_\_\_\_\_ is a passive electronic component that stores energy in the form of a \_\_\_\_\_. In its simplest form, an inductor consists of a \_\_\_\_\_. The inductance is directly proportional to the number of turns in the coil. Inductance also depends on the radius of the coil and on the type of material around which the coil is wound.





Inductors are used with \_\_\_\_\_ in various wireless communications applications. An inductor connected in series or parallel with a capacitor can provide discrimination against unwanted \_\_\_\_\_. Large inductors are used in the power supplies of electronic equipment of all types, including computers and their peripherals. In these systems, the inductors help to smooth out the \_\_\_\_\_ utility AC, providing pure, battery-like DC.