



ACROSS

- 4 Impedance _____ is the practice of attempting to make the output impedance of a source equal to the input impedance of the load to which it is ultimately connected.
- 8 The _____ is the inverse of the impedance.
- 10 A _____ is a vector used in circuit analysis with constant length and constant phase angle, usually represented as a complex exponential.
- 11 A _____ is a passive electrical device employed in electrical circuits for its property of inductance.
- 12 A _____ current is an electrical current whose magnitude and direction vary cyclically, as opposed to direct current, whose direction remains constant.
- 13 A _____ circuit is an electrical circuit consisting of a

- resistor, an inductor, and a capacitor, connected in series or in parallel.
- 14 _____ is the imaginary part of electrical impedance, which measures the opposition to a sinusoidal alternating current arising from the presence of inductance and capacitance within a circuit.
- 15 A _____ is an electrical device that converts alternating current to direct current, a process known as rectification.

DOWN

- 1 The _____ is the imaginary part of the admittance.
- 2 Electronic _____s are electronic circuits which perform signal processing functions, specifically intended to remove unwanted signal components and/or enhance wanted ones.
- 3 The Q or quality _____

- compares the time constant for decay of an oscillating physical system's amplitude to its oscillation period.
- 5 Electrical _____ describes a measure of opposition to a sinusoidal alternating current.
- 6 The _____ is the ratio of the magnetic flux to the current of the circuit in which an electric current is flowing and inducing a magnetic flux through the circuit.
- 7 The output _____ is the opposition exhibited by its output terminals to the flow of an alternating current of a particular frequency as a result of resistance, inductance and capacitance.
- 9 A _____ is a device that transfers electrical energy from one circuit to another through inductively coupled wires.