

Inductance element (Inductor): It stores the energy supplied to it by an external circuit, in its magnetic field.
 Symbol:  Inductance, L .

In the case of the capacitance and inductance elements, the energy stored could fully be recovered.

Figure 1.1 shows an electric circuit with both active and passive elements.



Figure 1.1: An electric circuit

1.1.3 Resistivity, Conductance and Conductivity

The resistance of a wire depends upon its length, l , cross-sectional area, A , type of material, purity and hardness of material of which it is made of and the operating temperature.

Mathematically, $R \propto \frac{l}{A}$

$$\Rightarrow R = \frac{\rho l}{A} \quad (1.2)$$

Where ρ (rho) is a constant and it depends on the nature of the material. It is known as the *specific resistance or resistivity of the material of the wire*.

Thus, **resistivity** of a material is the resistance of the material of unit length having unit cross-sectional area. Also defined as the resistance between opposite faces of a unit cube of that material.

Unit: Ωm

Conductance is the reciprocal of resistance $\left(\frac{1}{R}\right)$ and is denoted by G . It is defined as the inducement offered by the conductor to the flow of current.

$$G = \frac{1}{R} \quad (1.3)$$

Unit: S (Siemen)

Conductivity

This is the reciprocal of the resistivity. It is defined as the conductance between the two opposite faces of a unit cube.

Substituting equation (1.2) into equation (1.3),

$$G = \frac{1}{R} = \frac{1}{\frac{\rho l}{A}} = \frac{1}{\rho} \frac{A}{l} = \sigma \frac{A}{l}$$

Where $\frac{1}{\rho}$, σ is the specific conductance or conductivity of the material

Unit: S/m (siemens/metre)

Basic Electricity Applied Electricity

Milton Kaufman, J. A. Wilson



Basic Electricity Applied Electricity:

Guide to the evaluation of educational experience in the Armed Service 76 American Council on Education,1977

The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education,1984

The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army American Council on Education,1980 **Cyclopedia of Applied Electricity** ,1914 **Handbook of Basic Electricity** M. Fogiel,U S Naval Personnel,Research and Education Association,2002-01-01

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