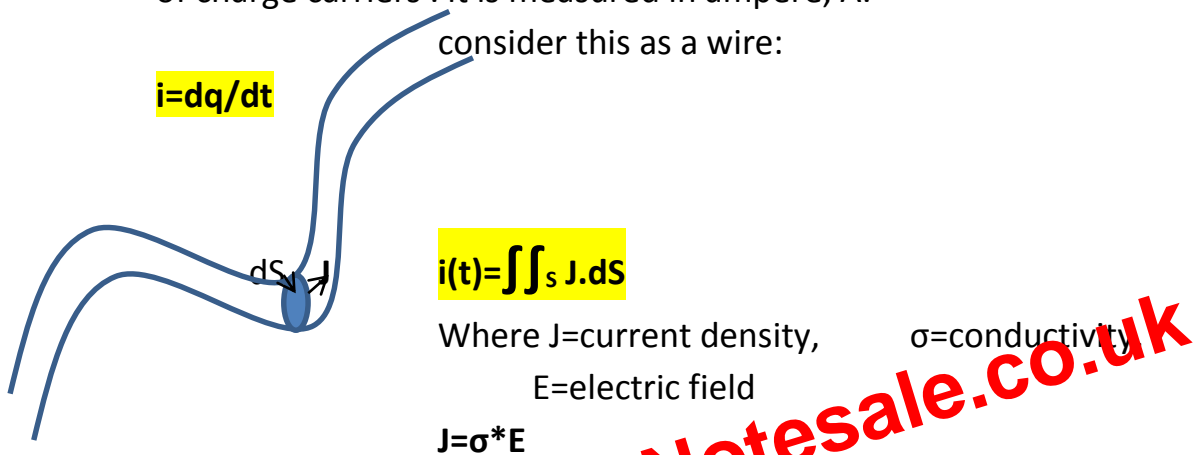


Electricity (linear electric circuits)

Basic things to know:

a. Definitions, vocabulary and important details:

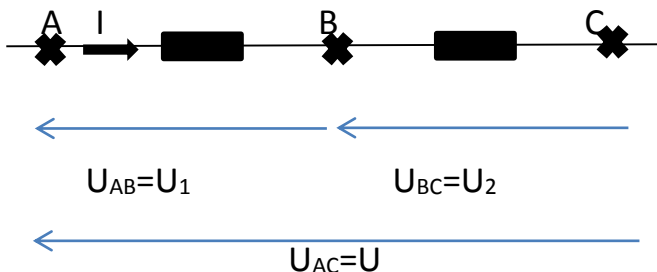
1. **Instantaneous electrical intensity, $i(t)$** : the instantaneous flow of charge carriers . it is measured in ampere, A.



2. Voltage, $u(t)$:

It is the potential difference between two points. It needs to be expressed according to a reference point, usually $V_M=0V$. voltage is measured in Volts, V.

3. Association in series



$$U = U_1 + U_2$$

$$U_{AC} = V_A - V_C = (V_A - V_B) + (V_B - V_C)$$