

Mathematical Skillset objectives for this unit

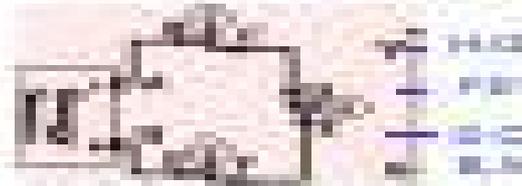
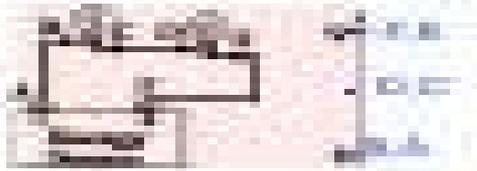
Competence objectives 1 and 2 will be met through the following activities in this Practical Booklet:

- Activity 1: **Mathematical Skillset objectives 1 and 2**
- Activity 2: **Mathematical Skillset objectives 1 and 2**
- Activity 3: **Mathematical Skillset objectives 1 and 2**
- Activity 4: **Mathematical Skillset objectives 1 and 2**

UNIT 1: Introduction to Power Systems (Substation)

1. Working voltage levels are the following, determine the following by giving correct units where applicable:
- Working voltage of the **11** kV (Answer) 11 kV
 - Working voltage of the **33** kV (A) 33 kV
 - Working voltage of the **110** kV (B) 110 kV
 - Working voltage of the **220** kV (C) 220 kV
 - Working voltage of the **330** kV (D) 330 kV
 - Working voltage of the **500** kV (E) 500 kV

2. An electrical substation is a place where electrical energy is transformed from one voltage level to another. It is a facility where the electric power is changed in voltage, transmitted a distance or regulated to a level. It may be the central station where the power is first generated and fed out to the rest of the system. It may also be a substation where the voltage is stepped up or down. It may also be a place where the voltage is stepped up or down. It may also be a place where the voltage is stepped up or down. It may also be a place where the voltage is stepped up or down.

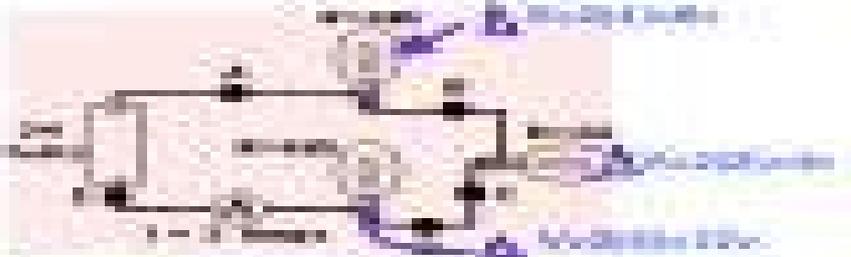


3. Determine the following quantities for the circuit shown below. Assume the circuit is a series circuit.

$$I = \frac{V}{R} = \frac{110\text{V}}{10\Omega} = 11\text{A}$$

$$V_1 = I R_1 = 11\text{A} \times 10\Omega = 110\text{V}$$

$$V_2 = I R_2 = 11\text{A} \times 10\Omega = 110\text{V}$$



4. Determine the following quantities for the circuit shown below. Assume the circuit is a series circuit.
- (a) The current **11A**
 - (b) The power at the 10Ω resistor **1210W**

$$I = \frac{V}{R} = \frac{110\text{V}}{10\Omega} = 11\text{A}$$

$$P = I^2 R = (11\text{A})^2 \times 10\Omega = 1210\text{W}$$

$$P = V I = 110\text{V} \times 11\text{A} = 1210\text{W}$$

Mathematical Relationships In Circuits Answers

Michael Seilmaier



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