

Quantity	DC	Single Phase AC	Three Phase AC
Current (I) Amp	<ul style="list-style-type: none"> $I = V/R$ $I = P/V$ $I = \sqrt{P/R}$ 	<ul style="list-style-type: none"> $I = P / (V \times \text{Cos}\theta)$ $I = (V/Z)$ 	<ul style="list-style-type: none"> $I = P / \sqrt{3} \times V \times \text{Cos}\theta$
Voltage (V) Volts	<ul style="list-style-type: none"> $V = I \times R$ $V = P / I$ $V = \sqrt{(P \times R)}$ 	<ul style="list-style-type: none"> $V = P/(I \times \text{Cos}\theta)$ $V = I \times Z$ 	<ul style="list-style-type: none"> $V_L = \sqrt{3} V_{PH}$ or $V_L = \sqrt{3} E_{PH}$ $V_L = V_{PH}$
Power (P) Watts	<ul style="list-style-type: none"> $P = IV$ $P = I^2 R$ $P = V^2/R$ 	<ul style="list-style-type: none"> $P = V \times I \times \text{Cos}\theta$ $P = I^2 \times R \times \text{Cos}\theta$ $P = (V^2/R) \times \text{Cos}\theta$ 	<ul style="list-style-type: none"> $P = \sqrt{3} V_L I_L \text{Cos}\Phi$ $P = 3 V_{PH} I_{PH} \text{Cos}\Phi$
Resistance (R) Ω	<ul style="list-style-type: none"> $R = V/I$ $R = P/I^2$ $R = V^2/P$ 	<ul style="list-style-type: none"> $Z = \sqrt{(R^2 + X_L^2)}$ $Z = \sqrt{(R^2 + X_C^2)}$ $Z = \sqrt{(R^2 + (X_L - X_C)^2)}$ 	



Maple 11 Differential Equations Electrical Engineering

Lei Shi



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