

Electrical Engineering Formulas Excel Sheet

ANSWERS:
From Use of Formulas
(See Approp. Units)

FORMULAS	EXCEL EQUIVALENT FORMULAS (CELL ADDRESSES/ APPROACH)	PARAMETER HEADINGS AND THEIR VALUES				
To find force in newtons $F = k \times Q_1 \times Q_2 / d^2$	Excel formula in column H is: =D13/E13/F13/G13^2	Q_1 (coul)	Q_2 (coul)	d (mtr)		1.8
		1	3	3		
To find current in amperes $I = Q/T$	Excel formula in column H is: =D14/E14	Q (coul)	T (sec)			2.9
		5	2			
To find cross-section, area in circular mils $A = d^2$	Excel formula in column H is: =D15^2	d (mils)				18
		4				
To find resistance in ohms $R = \rho / A$	Excel formula in column H is: =D22/E22/F22	ρ (CM-Cyft)	L (feet)	A (CM)		88.41
		10.4	200	18.75		
To find current in amperes $I = V/R$	Excel formula in column H is: =D25/E25	V (volts)	R (ohms)			2
		10	5			
To find voltage in volts $V = I \times R$	Excel formula in column H is: =D26/E26	I (amps)	R (ohms)			10
		2	5			
To find resistance in ohms $R = V/I$	Excel formula in column H is: =D27/E27	V (volts)	I (amps)			8
		10	2			
To find work in foot pounds Work (ft-lb)=Force x Distance	Excel formula in column H is: =D34/E34	F (lbs)	D (feet)			10000
		100	100			
To find power in watts Power = Energy / Time	Excel formula in column H is: =D37/E37	E (joules)	T (sec)			10
		100	10			
To find energy in watthours $E = P \times T$	Excel formula in column H is: =D38/E38	P (watts)	T (hours)			

Excel Formula For Electrical Engineering Calculations

Brendan G. Carr

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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