

ELECTRICITY

Equation	Usage	<p> <i>A</i> = area <i>F</i> = force <i>I</i> = current <i>ℓ</i> = length <i>P</i> = power <i>q</i> = charge <i>R</i> = resistance <i>r</i> = separation <i>t</i> = time <i>V</i> = electric potential <i>ρ</i> = resistivity </p>
$ \vec{F}_E = k \left \frac{q_1 q_2}{r^2} \right $	Calculate the magnitude of an electric field (Coulumb's Law)	
$I = \frac{\Delta q}{\Delta t}$	Calculate conservation of electric charge	
$R = \frac{\rho \ell}{A}$	Calculate resistivity of matter	
$I = \frac{\Delta V}{R}$ $R_s = \sum_i R_i$ $\frac{1}{R_p} = \sum_i \frac{1}{R_i}$	Describes the conservation of electric charge in electrical circuits (Kirchhoff's junction rule)	
$P = I \Delta V$	Describe conservation of energy in electrical circuits (Kirchhoff's loop rule)	

Electric Energy Physics Study Guide

Mike Folland



Electric Energy Physics Study Guide:

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Exp Smaller diameter wire Although the most common diameters of welding wire are 045 and 035 a smaller diameter wire usually will make it easier to create a good weld

Q 241 This is a good recommendation for thinner materials but be careful using this approach on thicker materials _____ because there may be a risk of lack of fusion a 3 16 b 3 16 c 3 15 d 3 15 Ans A

Exp This is a good recommendation for thinner materials but be careful using this approach on thicker materials 3 16 because there may be a risk of lack of fusion Q 242 For most casual welders a good rule of thumb to assure high quality welding is to change the tip after ever ____ lbs of wire Another point to remember about contact tips is that they should always be threaded completely into the gas diffuser and tightened prior to welding to give a smooth flow of welding current a 200 b 100 c 400 d 300 Ans B Exp For most casual welders a good rule of thumb to assure high quality welding is to change the tip after ever 100 lbs of wire Proudly Made in the USA Your purchase supports over 100 America workers including writers editors managers researchers service reps programmers engineers designers and technicians 80% of your purchase made between November and Dec will be donated to find a cure

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