

$$\bar{v} = \frac{\Delta s}{\Delta t} \quad a = \frac{v_f - v_i}{\Delta t} \quad s_f = s_i + v_i \Delta t + \frac{1}{2} a \Delta t^2$$

$$2a\Delta s = v_f^2 - v_i^2 \quad F = ma \quad \mu = \frac{|F_f|}{|F_N|}$$

$$a_c = \frac{v^2}{r} \quad C = 2\pi r \quad F_g = -G \frac{m_1 m_2}{r^2}$$

$$G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$$

$$W = Fs \quad U = mgh \quad K = \frac{1}{2} mv^2 \quad P = \frac{W}{t} \quad p = mv$$

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$F_e = k \frac{q_1 q_2}{r^2}$	$F_e = q\mathbf{E}$	$q = CV$	$V = \frac{W}{q}$	$W = Fs$	$F_e = k \frac{q_1 q_2}{r^2}$	$F_e = q\mathbf{E}$	$q = CV$	$V = \frac{W}{q}$	$W = Fs$
$\mathbf{E} = \frac{V}{s}$	$E = IR$	$V \approx IR$	$P = VI$	$P = I^2 R$	$\mathbf{E} = \frac{V}{s}$	$E = IR$	$V \approx IR$	$P = VI$	$P = I^2 R$
$R = \frac{\rho l}{A}$	$v = v\lambda$	$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$	$m = \frac{d_i}{d_o}$		$R = \frac{\rho l}{A}$	$v = v\lambda$	$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$	$m = \frac{d_i}{d_o}$	
$n = \frac{c}{v}$	$n_I \sin \theta_I = n_R \sin \theta_R$				$n = \frac{c}{v}$	$n_I \sin \theta_I = n_R \sin \theta_R$			

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$\mathbf{E} = \frac{V}{s}$	$E = IR$	$V \approx IR$	$P = VI$	$P = I^2 R$	$\mathbf{E} = \frac{V}{s}$	$E = IR$	$V \approx IR$	$P = VI$	$P = I^2 R$
$R = \frac{\rho l}{A}$	$v = v\lambda$	$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$	$m = \frac{d_i}{d_o}$		$R = \frac{\rho l}{A}$	$v = v\lambda$	$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$	$m = \frac{d_i}{d_o}$	
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