

WAVES, LIGHT AND SOUND

$v = f \lambda$		$T = \frac{1}{f}$
$E = hf$	$E = \frac{hc}{\lambda}$	$E = W_f + \frac{1}{2}mv^2$
$f_s = \left(\frac{v}{v - v_s} \right) f_i$	or	$f_s = \left(\frac{v}{v + v_s} \right) f_i$

ELECTROMAGNETISM

$emf = -N \frac{\Delta \Phi}{\Delta t}$

ELECTRIC CIRCUITS

$Q = I\Delta t$	$R = \frac{V}{I}$
$P = VI = I^2 R = \frac{V^2}{R}$	$V = \frac{W}{Q}$
$R_{\parallel} = R_1 + R_2 + \dots$	$\frac{1}{R_{\parallel}} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$
$C = \frac{Q}{V}$	$emf = I(R + r)$

WAVELENGTHS OF COMMON LIGHT SOURCES

$\lambda = \frac{c}{f}$	$\lambda = \frac{c}{n}$
$\lambda = \lambda_0 \frac{1}{n}$	$\lambda_0 = \lambda n$

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Kevin Smith

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