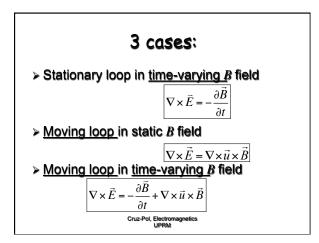
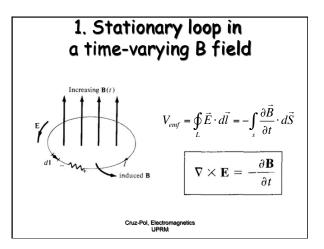
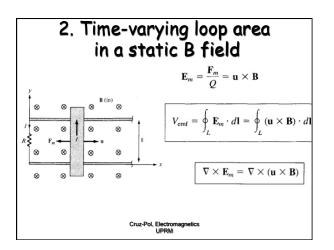
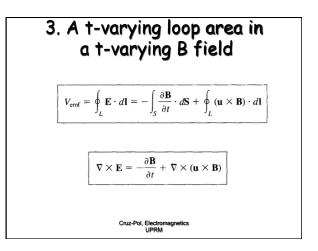


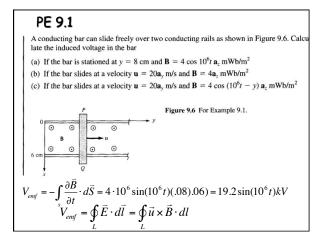
Dr. S. Cruz-Pol, INEL 4152-Electromagnetics

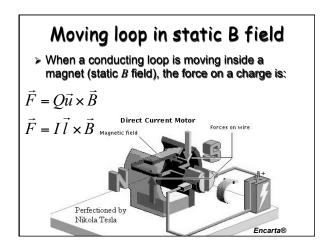


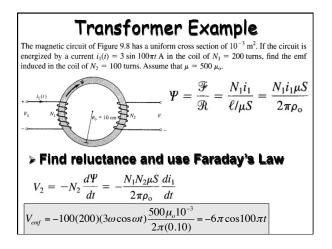


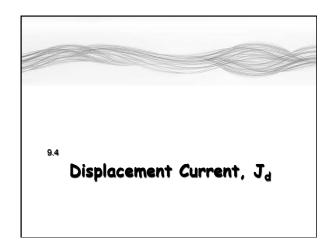


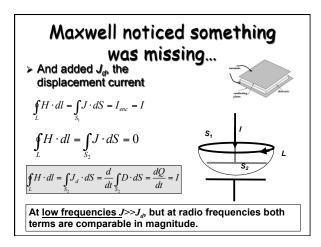


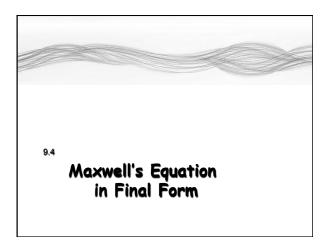


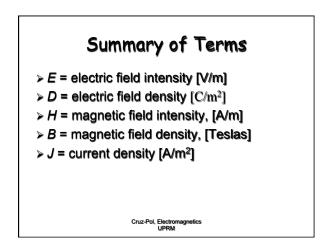


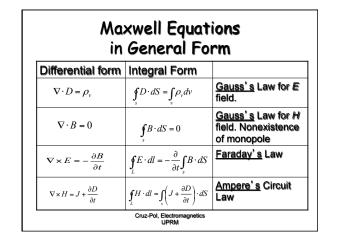


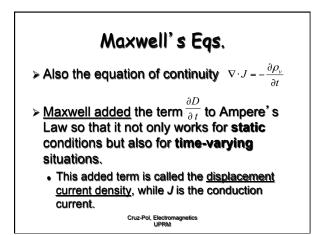


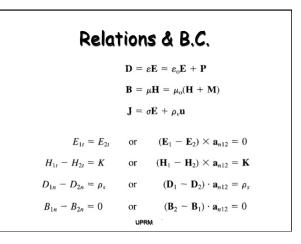


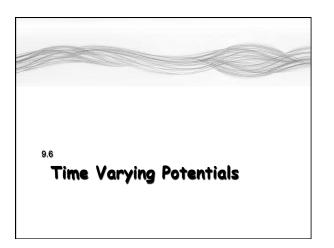


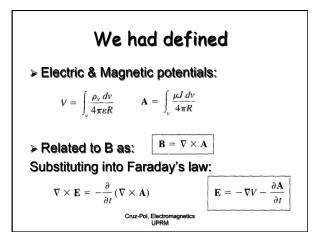


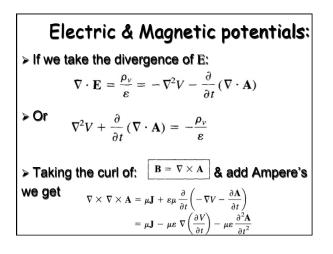


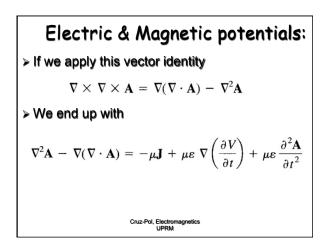


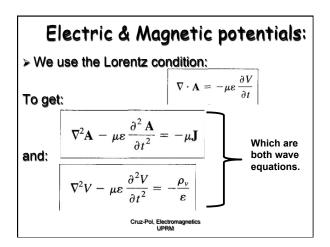


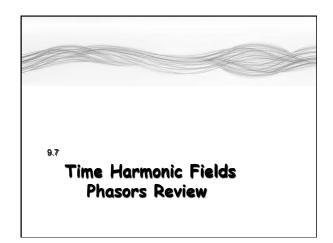


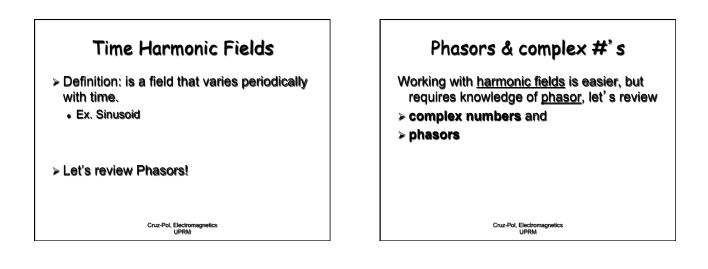


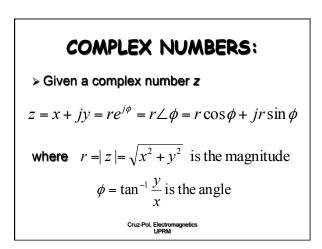


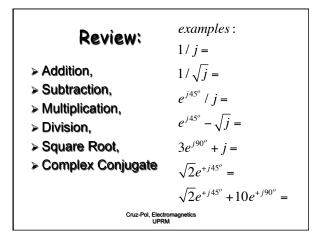


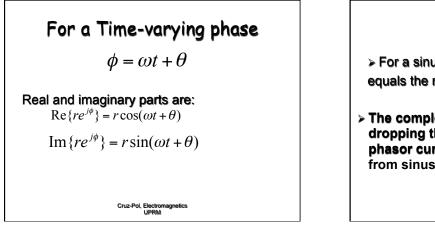


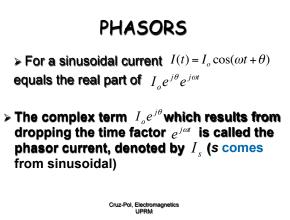


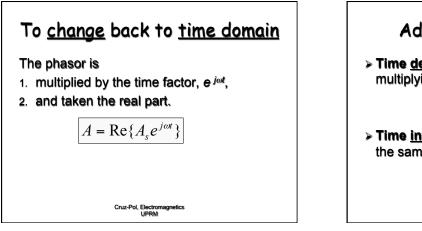


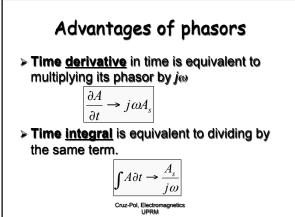


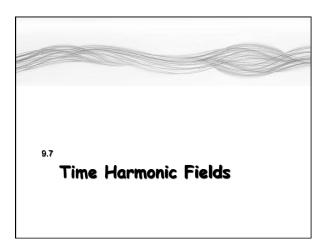


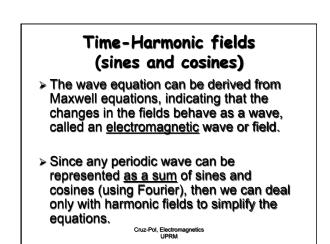












Maxwell Equations for Harmonic fields (phasors)	
Differential form*	
$\nabla \cdot \varepsilon E = \rho_{v}$	Gauss's Law for E field.
$\nabla \cdot \mu H = 0$	<u>Gauss' s</u> Law for H field. No monopole
$\nabla \times E = -j\omega\mu H$	Faraday's Law
$\nabla \times H = \sigma E + j\omega \varepsilon E$	Ampere's Circuit Law
substituting $D = \varepsilon E$ and $H = \mu B$)

