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Principles of Electrical Engineering Formula Sheet Star/Delta - Delta/Star conversions. Voltage divider: $V_1 = V \frac{R_1}{R_1 + R_2}$ Power Formulas: DC P=VI, P=I²R P=VIcos(φ), = $\sqrt{3}VLIL\sin(\phi)$ 3 phase formulas: Star connection: Resonance Circuits: Series: f₀ = $\frac{1}{2\pi LC}$ IL = I_{ph} = $\sqrt{3}VPh$ P=V²/R AC (3 phase) Current divider: $I_1 = I \frac{R_2}{R_1 + R_2}$.

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