



# ELECTRONICS I

### AC Voltage

$V(t) = V_m \sin(\omega t)$

$V_{eff} = \frac{V_m}{\sqrt{2}}$

$V_{eff} = 0.707 V_m$

$V_m = \sqrt{2} V_{eff}$

$V_m = 1.414 V_{eff}$

### AC Power

$P = VI$

$P = I^2 R$

$P = \frac{V^2}{R}$

### AC Circuit Diagrams

### AC Circuit Analysis

$V = IR$

$I = \frac{V}{R}$

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### Equivalent Circuits

$R_{eq} = R_1 + R_2$

$R_{eq} = \frac{R_1 R_2}{R_1 + R_2}$

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# Electronics Study Guide

**Zhe Xu**



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