# ELECTROSTATICS/ELEKTROSTATIKA

$$F = \frac{kQ_1Q_2}{r^2}$$

$$V = \frac{W}{q}$$

$$I = \frac{Q}{e}$$

$$I = \frac{Q}{q_e}$$

$$I = \frac{Q}{q$$

 $emf(\epsilon) = I(R + r)$ 

$R = \frac{V}{I}$	emf $(\epsilon)$ = I(R + r) emk $(\epsilon)$ = I(R + r)			
$R_n = R_1 + R_2 +$ $\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} +$	$\mathbf{q} = \mathbf{I}\Delta \mathbf{t}$			
W = Vq W = VI \( \Delta \) t	$P = \frac{W}{\Delta t}$			
$W = I^2 R \Delta t$	P = VI			
$W = \frac{V^2 \Delta t}{R}$	$P = I^2R$ $P = \frac{V^2}{R}$			

ALTERNATIN	G CURR	RENT/WISSELST	ROOM		
, I <sub>max</sub>		, I <sub>make</sub>	$P_{ave} = V_{ms}I_{ms}$	1	$P_{\text{gemiddeld}} \! = V_{\text{wgk}} I_{\text{wgk}}$
$I_{\rm ms} = \frac{1}{\sqrt{2}}$	,	$I_{wgk} = \frac{1}{\sqrt{2}}$	$P_{\text{ave}} = I_{\text{ms}}^2 R$	/	$P_{gemiddeld} = I_{wgk}^2 R$
$V_{ms} = \frac{V_{max}}{\sqrt{2}}$	/	$V_{wgk} = \frac{V_{maks}}{\sqrt{2}}$	$P_{ane} = \frac{V_{mns}^2}{P}$	,	$P_{gemiddeld} = \frac{V_{wgk}^2}{R}$

# **Matric Past Papers Physical Science**

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