

PHYSICS 4B EQUATION SHEET

$\mathbf{F}_{12} = \frac{kq_1q_2}{r^2} \hat{\mathbf{r}}_{12}$	Coulomb's Law
$\mathbf{E} = \frac{\mathbf{F}}{q}$	Electric Field
$\mathbf{E} = k \frac{q}{r^2} \hat{\mathbf{r}}$	Electric Field due to a point charge
$\mathbf{E} = k \int \frac{dq}{r^2} \hat{\mathbf{r}}$	Electric Field due to a continuous charge
$E = \frac{2k\lambda}{r}$	E-field due to infinite line of charge
$E = \frac{\sigma}{2\epsilon_0}$	E-field due to an infinite plane of charge
$E = \frac{\sigma}{\epsilon_0}$	E-field just outside a conductor
$\Phi_E = \int \mathbf{E} \cdot d\mathbf{A}$	Electric Flux
$\Phi_E = \oint \mathbf{E} \cdot d\mathbf{A} = \frac{q_{enc}}{\epsilon_0}$	Gauss's Law
$p = qd$	Electric Dipole Moment
$\boldsymbol{\tau} = \mathbf{p} \times \mathbf{E}$	Torque on Electric Dipole
$U = -\mathbf{p} \cdot \mathbf{E}$	PE of electric dipole
$\Delta V = \frac{\Delta U}{q} = V_B - V_A = - \int_A^B \mathbf{E} \cdot d\mathbf{s}$	Electric Potential Difference
$U = qV$	Electric Potential Energy
$U = \frac{kq_1q_2}{r}$	Electric Potential Energy
$V = \frac{kq}{r}$	Electric Potential due to a point charge
$V = k \int \frac{dq}{r}$	Electric Potential due to an extended body of charge
$\mathbf{E} = -\nabla V$	Relation between V and E
$C = \frac{Q}{V}$	Capacitance
$C = \frac{\epsilon_0 A}{d}$	Capacitance for Parallel-Plate Capacitor
$C_{eq} = C_1 + C_2$	Capacitors in Parallel
$\frac{1}{C_{eq}} = \frac{1}{C_1} + \frac{1}{C_2}$	Capacitors in Series

$\mu = \frac{1}{2} \epsilon_0 E^2$	Energy Density in an E-field
$C = kC_0$	Capacitance with Dielectric
$E = \frac{E_0}{k}$	E-field with Dielectric
$U = \frac{1}{2} CV^2$	Energy in a Capacitor
$I = \frac{dQ}{dt}$	Electric Current
$J = \frac{I}{A}$	Current Density
$\mathbf{J} = \sigma \mathbf{E}$	Ohm's Law
$R = \frac{\rho \ell}{A}$	Resistance
$V = IR$	"Ohm's Law"
$\rho = \frac{1}{\sigma}$	Resistivity
$R_{eq} = R_1 + R_2$	Resistors in Series
$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2}$	Resistors in Parallel
$I(t) = \frac{V}{R} e^{-\frac{t}{\tau}}$	Current Charging Capacitor
$q(t) = CV(1 - e^{-\frac{t}{\tau}})$	Charge Charging Capacitor
$\tau = RC$	Time-Constant
$\mathbf{F} = q\mathbf{v} \times \mathbf{B}$	Magnetic Force on a Moving Charge
$\mathbf{F} = I\mathbf{L} \times \mathbf{B}$	Magnetic Force on a Current-Carrying Conductor
$\mathbf{F} = I \int_a^b d\mathbf{s} \times \mathbf{B}$	Magnetic Force on a Current-Carrying Conductor
$\boldsymbol{\tau} = \boldsymbol{\mu} \times \mathbf{B}$	Torque on Current Loop
$U = -\boldsymbol{\mu} \cdot \mathbf{B}$	Magnetic Potential Energy
$\vec{F} = q\vec{E} + q\vec{v} \times \vec{B}$	Lorentz Force
$\Delta V_H = \frac{IB}{nqt}$	Hall Voltage

Physics Papergrade 23

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