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β Ý 4 Principle of superposition ' ,  
& á Ø ç L Í ' , & Ü Ç Ü @ 5 Electric  
flux  $\Phi$   $\frac{3}{4}$  L  $\pm$  ' , & • # & Gauss's

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law  $\Phi$  » ' , & • # & L 3 Ü á Ý 4

Electric potential  $\Delta V$  L 8 Ü

F 8 Ü L F  $\pm$  ' , & • O & Ü Ü For a

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Pole (represented by N) and South Pole (represented by S). If you break the rock into pieces you get small magnets and each magnet also has two poles N and S.. Same poles of the magnet like in the electricity repel each other and opposite poles attract each

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Electric flux:  $\Phi E = \int \cdot N m^2 C^{-1}$   
[M][L]<sup>3</sup> [T]<sup>-3</sup> [I]<sup>-1</sup>: Absolute  
permittivity;  $\epsilon = F m^{-1}$  [I]<sup>2</sup> [T]<sup>4</sup>  
[M]<sup>-1</sup> [L]<sup>-3</sup>: Electric dipole

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## **List of electromagnetism equations - Wikipedia**

The equation for the magnitude of the electric field in this setup is:  
 $E = \frac{V}{d}$  (2) where,  $V$  is the voltage difference, and  $d$  the distance,

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between the plates. The electric field flows from the positive plate to the negative, the opposite direction to the direction of increasing voltage; this results in the negative sign.

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For any isolated electrically charged object, the electric



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potential is defined as zero at infinite distance from the charged object. ADVANCED PLACEMENT PHYSICS 2 EQUATIONS, EFFECTIVE 2015. MECHANICS. ELECTRICITY AND MAGNETISM.

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## **PHYSICS 2 EQUATIONS, EFFECTIVE 2015**

Physics I & II Formulas The information for this handout was compiled from the following sources:

### **Physics I & II Formulas**

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The electric potential is zero at an infinite distance from an isolated point charge. IV. All batteries and meters are ideal unless otherwise stated. V. Edge effects for the electric field of a parallel plate capacitor are negligible unless otherwise stated. ... ELECTRICITY

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one is a realistic example of what you will be given; Review:

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$E$  = electric field [ N/C ]  $q$  =  
charge [C]  $r$  = distance from  
center of sphere to the charge [ m ]  
Average Power per unit area

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of an electric or magnetic field:  $W = \frac{1}{2} \epsilon_0 E^2 + \frac{1}{2} \mu_0 B^2$   
 $W = \text{watts}$   $E = \text{max. electric field [ N/C ]}$   
 $m_0 = 4 \pi \times 10^{-7} \text{ c} = 2.99792 \times 10^8 \text{ [m/s]}$   $B = \text{max. magnetic field [ T ]}$   $A = \text{positive charge moving in the same direction as the electric}$

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EQUATIONS. INFORMATION.

Coulomb's Law . Electric Field

Strength . Electric Field Strength

for a System of Charges . Electric

Field Strength for a Continuous

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Charge . Particle in an Electric  
Field . Linear Charge Density .  
Surface Charge Density . Volume  
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Physics 208 — Formula Sheet for

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Exam 1 Do NOT turn in these formula sheets! Force on a charge: An electric field  $\vec{E}$  exerts a force  $\vec{F}$  on a charge  $q$  given by:  $\vec{F} = q\vec{E}$  Coulomb's law: A point charge  $q$  located at the coordinate origin gives rise to an electric field  $\vec{E}$  given by  $\vec{E} = q$

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$4\pi\epsilon_0 r^2 \hat{r}$  where  $r$  is the distance  
from the origin ...

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Magnetism Formula Magnetic  
Effect of Electric Field is the  
property where an electric field is

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produced around a current-carrying conductor. This effect was first demonstrated by Prof H.C Oersted in the year 1820.

## **Magnetism Formula Explained - BYJUS**

C m. e. =  $9.1 \times 10^{-31}$  kg m.



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$\rho = 1.7 \times 10^{-27} \text{ kg}$   $c = 3.0 \times 10^8 \text{ m/s}$

James Clerk Maxwell published the Treatise on Electricity and Magnetism in 1873. At his death,

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six years later, his theory of the electromagnetic field was neither well understood nor widely accepted. By the mid-1890s, however, it was regarded as one of the most fundamental and fruitful of all physical theories. Bruce J. Hunt examines the joint

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work of a group of young British physicists--G. F. FitzGerald, Oliver Heaviside, and Oliver Lodge--along with a key German contributor, Heinrich Hertz. It was these "Maxwellians" who transformed the fertile but half-finished ideas presented in the

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their preparedness, and identify areas in which further study is needed. Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology, this self-contained reference guide will



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