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mechanical energy most electric motors operate through the interaction between the motor's magnetic field and electric current in a wire winding to generate force in the form of torque applied on the motor's shaft an electric generator is mechanically identical to an electric motor but operates with a

**electric magnetic flux density field intensity formulas** Aug 14 2021 where  $\Phi_e$  electric flux  $E$  electric field  $A$  area of the surface  $q$  electric charge inside the surfaces of a  $\epsilon_0$  permittivity of free space also known as universal or electric constant which is equal to  $8.854 \times 10^{-12} \text{ f m}^{-1}$  the above equations is one of the four Maxwell's equations also known as Gauss law related to an electric field

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levels underneath power lines can be as high as 10 kv m however the fields both electric and

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si unit of magnetic field generally the magnetic field can be defined in several specific ways in relation to its effect on the environment accordingly we have the b field and the h field

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michael faraday wikipedia Dec 26 2019 michael faraday frs ? f ær ? d e? d i 22 september 1791 25 august 1867 was an english scientist who contributed to the study of electromagnetism and electrochemistry his main discoveries include the principles underlying electromagnetic induction diamagnetism and electrolysis although faraday received little formal education he was one of the most

*definition formula measurement units magnetic force byjus* Oct 28 2022 magnetic induction due to a bar magnet on its axial line the axial line of a magnet is the line passing through both the poles of the magnet let us consider a bar magnet ns of magnetic length  $2l$  and pole strength  $m$  as shown in fig let a be a point on the axial line at a distance  $d$  from the centre o of the magnet