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when the lava came up through a volcano the rock took a significant time to cool in this time the earth's magnetic field automatically aligned the domains or atoms of the lava then when the rock cooled the atoms were set in place making the rock magnetic this is the process that factories use to make bar magnets today

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electromagnetism lecture 3 magnetic fields integral form of ampere's law differential form of ampere's law magnetic vector potential methods of calculating magnetic fields examples of magnetic fields magnetic field the magnetic field \mathbf{B} is defined by the force on a moving charge $\mathbf{f} = q\mathbf{v} \times \mathbf{B}$ in units of tesla $\text{T} = \text{N} / (\text{A} \cdot \text{m})$

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lecture notes the course notes were written by john belcher peter dourmashkin and sen ben liao the teal classroom includes the opportunity for students to use the personal response system prs questions are posed to the class to stimulate discussion and indicate how concepts are going over

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unlike the electrical effect in matter which always causes dielectrics to be attracted there are two signs to the magnetic effect these two signs can be easily shown with the help of a strong electromagnet which has one sharply pointed pole piece and one flat pole piece as drawn in fig 34 1

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checkpoint 1 case 1 has twice as much charge enclosed as case 2 so the flux will be twice as big in case 1 the flux in both cases is going to equal the electric field times the surface area of the cylinder in case 1 the surface area is $2\pi r l$ in case 2 the surface area is $2\pi r^2$ which reduces to $2\pi r l$

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this document discusses magnetic circuits and concepts related to electromagnetic theory it provides definitions of key terms like reluctance permeability flux and flux density it also analyzes typical magnetic circuits including those with air gaps and examples of series and parallel magnetic circuits

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3 magnetic susceptibility 4 magnetic induction i m i v l m m v n m h m m χ mag h χ mag b μ_0 h m μ_0 h l χ mag μ_0 μ_r h μ h definitions h magnetic field usually externally applied by a magnet μ_0 magnetic permeability of the vacuum μ_r relative magnetic permeability μ_r l χ

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even though there are no such things as isolated magnetic charges we can still define the attraction and repulsion of magnets as based on a field in this section we define the magnetic field determine its direction based on the right hand rule and discuss how to draw magnetic field lines

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magnetic circuits magnetic flux in circuit similar to current unit maxwells mx 1 magnetic line of force magnetomotive force mmf similar to voltage unit gilberts gb the mmf that will establish a flux of 1 mx in a magnetic circuit having a reluctance rel of 1 unit in electromagnets mmf is proportional to coil

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fig 13 5 the magnetic force on a current carrying wire is the sum of the forces on the individual moving charges now we are ready to find the force on a current carrying wire in a magnetic field the current consists of charged particles moving with the velocity v along the wire

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in this chapter we will discuss the behavior and peculiarities of ferromagnetic materials and of other strange magnetic materials before proceeding to study magnetic materials however we will review very quickly some of the things about the general theory of magnets that we learned in the last chapter

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