

Motors use the effect of forces on current-carrying conductors in magnetic fields

Discuss the effect on the magnitude of the force on a current-carrying conductor of variations in:

- The strength of the magnetic field in which it is located
 - The magnitude of the current in the conductor
 - The length of the conductor in the external magnetic field
 - The angle between the direction of the external magnetic field and the direction of the length of the conductor
-
- A current-carrying conductor will experience a force in a magnetic field
 - An individual moving charge with constant velocity will experience a force in a magnetic field, proportional to both direction and magnitude of that velocity
 - Therefore, as current through a wire consists of a stream of moving charged particles, or electrons, the wire must experience a force that is equal to the sum of the forces acting on each individual charge in a field
 - If the field is uniform, then the force on each charge is equal
 - Here, the force on the wire is equal to the number of charges multiplied by the force on one individual charge
 - The greater the strength of the magnetic field, the greater the force acting on the conductor
 - This is because the force on an individual charged particle in a magnetic field is proportional to magnetic field strength
 - As the magnitude of the current through the conductor increases the force increases
 - Current is defined as number of charges moving through a single point per unit of time
 - Therefore as current increases, the number of charges moving in the wire increases, causing the force exerted on the wire to increase
 - Alternatively, an increase in current causes the potential difference in the wire to rise, meaning that the drift velocity of charged particles increases
 - This in turn increases the force acting on the wire
 - If the length of the wire inside the magnetic field increases, the force increases
 - An increase in wire length will increase the number of charges present in the entire wire
 - The angle between the direction of the magnetic field and the conductor also affects the force exerted on it
 - If the wire is perpendicular to the direction of the magnetic field, it will experience the maximum possible force
 - As the angle decreases the force reduces in magnitude
 - This is because, as the direction of the wire and therefore velocity of the charged particles changes, magnetic field strength varies
 - At an angle of zero, when the wire is parallel to the magnetic field, the conductor experiences no force

Magnetic Fields Physics Study Guide Answers

Arshad Iqbal



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web feb 22 2023 vocabulary the food chain describes who eats whom in the wild every living thing from one celled algae to giant blue whales needs food to survive each food chain is a possible pathway that energy and nutrients can follow through the ecosystem for example grass produces its own food from sunlight a rabbit eats the

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web a food chain outlines who eats whom a food web is all of the food chains in an ecosystem each organism in an ecosystem occupies a specific trophic level or position in the food chain or web producers who make their own food using photosynthesis or chemosynthesis make up the bottom of the trophic pyramid

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web sep 10 2023 it has nutritional bilateral and interaction with the ecosystem s biotic components the limbs of a food chain are plants and animals that are successively dependent on one another it has three to four trophic levels the highest level is 5 shorter food chains mean more available energy and vice versa

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web in ecology a food chain is a series of organisms that eat one another so that energy and nutrients flow from one to the next for example if you had a hamburger for lunch you might be part of a food chain that looks like this grass → cow → human

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web a food chain is a linear sequence of organisms through which nutrients and energy pass as one organism eats another in a food chain each organism occupies a different trophic level defined by how many energy transfers separate it from the basic input of the chain

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web mar 13 2018 food chains and webs comprise different types of consumers a producer and its seeds or fruit are always at the lowest level followed by primary consumers secondary consumers and tertiary consumers trees and grass are producers examples of primary consumers which eat producers are mice and insects secondary consumers

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web the food chain below shows the food relationship between plant p animal q and animal r a disease outbreak killed many animals q the disease does not affect plant p and animal r the line graph below shows the change

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web a food chain shows how energy is transferred from one living organism to another via food it is important for us to understand how the food chain works so that we know what are the important living organisms that make up the food chain and how the ecology is balanced photosynthesis is only the beginning of the food chain

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web may 9 2023 a food web consists of all the food chains in a single ecosystem each living thing in an ecosystem is part of multiple food chains each food chain is one possible path that energy and nutrients may take as they move through the ecosystem all of the interconnected and overlapping food chains in an ecosystem make up a food web

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