

# Chapter 24

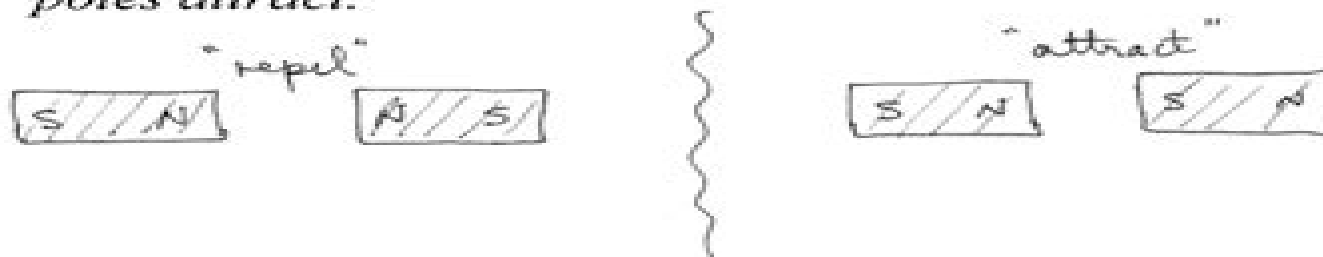
## Magnetism

### I. Magnetic Fields

- Magnetic fields are produced by electric charges in *motion*, i.e. by *electric currents*.
- Magnetic fields exert forces on other moving electric charges (or currents) as long as the moving charges do not travel in the same (or opposite) direction as the magnetic field that is exerting the force.
- Magnetic fields do not speed up or slow down moving charges, instead, the magnetic field *deflects* the moving charges.
- The unit of magnetic field in the metric system is the *Tesla*.

### 2. Magnets

- A simple bar magnet (or horseshoe magnet) has a single “North” pole and a single “South” pole.
- In a magnet, *like poles repel* each other and *opposite poles attract*.



# Conceptual Physics Chapter 24 Magnetic Fundamentals

## Answers

**Lauren Gardner**



## **Conceptual Physics Chapter 24 Magnetic Fundamentals Answers:**

**Fundamentals of Physics, , Chapters 23 to 49** David Halliday,Robert Resnick,Jearl Walker,1993-09-13 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1888 edition Excerpt apparel and sought and obtained employment as a teamster in the quartermasters department Her features were very large and so coarse and masculine was her general appearance that she would readily have passed as a man and in her case the deception was no doubt easily practiced Next day the she dragoon was caught and proved to be a rather prepossessing young woman and though necessarily bronzed and hardened by exposure I doubt if even with these marks of campaigning she could have deceived as readily as did her companion How the two got acquainted I never learned and though they had joined the army independently of each other yet an intimacy had sprung up between them long before the mishaps of the foraging expedition They both were forwarded to army headquarters and when provided with clothing suited to their sex sent back to Nashville and thence beyond our lines to Louisville On January 9 by an order from the War Department the Army of the Cumberland had been divided into three corps designated the Fourteenth Twentieth and Twenty first This order did not alter the composition of the former grand divisions nor change the commanders but the new nomenclature was a decided improvement over the clumsy designations Right Wing Centre and Left Wing which were well calculated to lead to confusion sometimes McCooks wing became the Twentieth Corps and my division continued of the same organization and held the same number as formerly the Third Division Twentieth Corps My first brigade was now commanded by Brigadier General William H Lytle the second by Colonel Bernard Laiboldt and the third by Colonel Luther P Bradley On the 4th of March I was directed to move in light marching order toward Franklin and

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