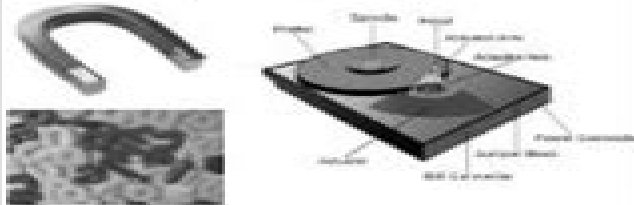


## Chapter 24: Magnetism



## Magnetic Fields

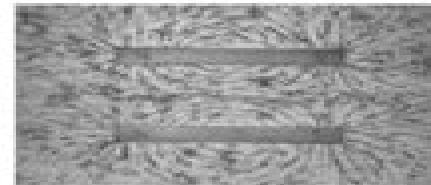
- Electric charges produce electric fields
- More than one charge, and you'll get an electric force
- **Moving** charges produce magnetic fields
- More than one moving charge, and you'll get magnetic forces!
- Electricity + Magnetism = Electromagnetism (one of the four fundamental forces)

## Magnetic Field

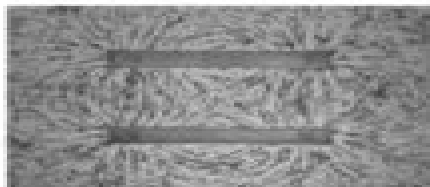
- Moving charges  $\rightarrow$  current
- Every magnetic field exists because of currents
- Every magnet is a "dipole" (has a N and S)
  - No "magnetic charges" (or "magnetic monopoles") have ever been found!
- Similar rule as electric forces: like poles repel, opposites attract



## Like Poles Repel



## Opposite Poles Attract



## Natural Magnets and Domains

- If moving charges cause magnetic fields, where are the moving charges in a magnetic material?
- Look down at the subatomic level:
  - Electrons move around the nucleus
  - Electrons and protons also have a spin!
- Similarly-aligned atoms occur in clusters called *magnetic domains*

# Conceptual Physics Chapter 24 Magnetism Magnetic Fundamentals

**Randall Dewey Knight, Brian  
Jones, Stuart Field**



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

**Physics for Scientists and Engineers** Lawrence S. Lerner, 1997 This refreshing new text is a friendly companion to help students master the challenging concepts in a standard two or three semester calculus based physics course Dr Lerner carefully develops every concept with detailed explanations while incorporating the mathematical underpinnings of the concepts This juxtaposition enables students to attain a deeper understanding of physical concepts while developing their skill at manipulating equations

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**College Physics Essentials, Eighth Edition** Jerry D. Wilson, Anthony J. Buffa, Bo Lou, 2019-12-06 This new edition of College Physics Essentials provides a streamlined update of a major textbook for algebra based physics This is the second volume covers electricity atomic nuclear and quantum physics The first volume is available separately and covers topics such as mechanics heat and thermodynamics The authors provide emphasis on worked examples together with expanded problem sets that build from conceptual understanding to numerical solutions and real world applications to increase reader engagement Including over 900 images throughout the two volumes this textbook is highly recommended for students seeking a basic understanding of key physics concepts and how to apply them to real problems

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*Fundamentals of Physics* Henry Semat, 1951      *Magnetic Resonance Imaging* Robert

W. Brown, Y.-C. Norman Cheng, E. Mark Haacke, Michael R. Thompson, Ramesh Venkatesan, 2014-05-02 New edition explores contemporary MRI principles and practices Thoroughly revised updated and expanded the second edition of Magnetic Resonance Imaging Physical Principles and Sequence Design remains the preeminent text in its field Using consistent nomenclature and mathematical notations throughout all the chapters this new edition carefully explains the physical principles of magnetic resonance imaging design and implementation In addition detailed figures and MR images enable readers to better grasp core concepts methods and applications Magnetic Resonance Imaging Second Edition begins with an introduction to fundamental principles with coverage of magnetization relaxation quantum mechanics signal detection and acquisition Fourier imaging image reconstruction contrast signal and noise The second part of the text explores MRI methods and applications including fast imaging water fat separation steady state gradient echo imaging echo planar imaging diffusion weighted imaging and induced magnetism Lastly the text discusses important hardware issues and parallel imaging Readers familiar with the first edition will find much new material including New chapter dedicated to parallel imaging New sections examining off resonance excitation principles contrast optimization in fast steady state incoherent imaging and efficient lower dimension analogues for discrete Fourier transforms in echo planar imaging applications Enhanced sections pertaining to Fourier transforms filter effects on image resolution and Bloch equation solutions when both rf pulse and slice select gradient fields are present Valuable improvements throughout with respect to equations formulas and text New and updated problems to test further the readers grasp of core concepts Three appendices at the end of the text offer review material for basic electromagnetism and statistics as well as a list of acquisition parameters for the images in the book Acclaimed by both students and instructors the second edition of Magnetic Resonance Imaging offers the most comprehensive and approachable introduction to the physics and the applications of magnetic resonance imaging

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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

*College Physics* Randall Dewey Knight, Brian Jones, Stuart Field, 2007     Fundamentals of Physics David Halliday, 1993     Physics, Volume 1 John D. Cutnell, Kenneth W.

Johnson, David Young, Shane Stadler, 2019-07-30 A book to help students understand physics concepts and the role the science plays in their lives This text has been written to engage students in the subject of physics and promote their understanding of key concepts The loose leaf volume of Physics 11th Edition Volume 1 is designed to support student success It opens by discussing kinematics forces dynamics and work and energy It also provides students with the concepts related to impulse and momentum as well as rotational kinematic and dynamics An exploration of principles laws and theories in the text includes Newton's laws of motion the ideal gas law and kinetic theory and the principle of linear superposition and interference phenomena Students also learn about electric forces fields circuits and potential energy The concept of light is explored in relation to reflection refraction and the wave nature of light The text's final chapters look at the nature of the atom nuclear physics and nuclear energy Each chapter of the book comes with a concept summary to reinforce what has been presented Students also expand learning through solving problems team problems and concept calculations problems

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