

MAGNETISM & MATTER

BAR MAGNET

Iron filings on steel bar magnet
concentrated pattern
formed a following
conclusion:



Poles are \pm the \pm charge of electric dipole



Poles - North pole (+) & South pole (-)

For suspension, poles point towards geographic north & south pole.

Like poles - repel

unlike poles - attract

poles never separated. monopoles don't exist



MAGNETIC FIELD LINES

imaginary curve, tangent to any point gives direction of magnetic field at that point

MFL of bar magnet

[on surface carrying current], close loop around it.

Electric field lines - open loop

Outside magnet - Field line direction $N \rightarrow S$

inside - $S \rightarrow N$

field lines never intersect each other. at point of intersection, 2 tangents balance the 2 directions of magnetic field at same point, which is not possible.



$B \propto \frac{1}{r^2}$ of lines

and

field lines stronger the field



MFL come out & go into magnetic matter at any angle.

Electric field lines conducting surface is normal to it.



uniform magnetic field $B_1 > B_2$

non uniform magnetic field $B_2 > B_1$



POLE STRENGTH

Just like electric charges, a magnetic charge [also 2nd pole strength] $+m \rightarrow$ north pole, $-m \rightarrow$ south pole



$m =$ pole strength

$m \propto$ area

$M = m \cdot l$ [following electrical analogy] $l =$ m charge & pair it.

unit (pole strength / magnetic charge) = Ampere-metre

$M = m \cdot l$

$M =$ magnetisation

magnetic monopoles don't exist

magnetic field lines - continuous & form closed loops

In contrast, electric field lines begin on +ve charge & terminate on -ve charge

MAGNETIC DIPOLE MOMENT OF BAR MAGNET

Equal to that of any 2 pole strength & separation b/w 2 poles.

$M = m \cdot l$ [directed from $S \rightarrow N$ pole]

directed due to pole direction: $-m \rightarrow +m$



$M = m \cdot l$

11. Normal Dislocation



$$B_0 = \frac{\mu_0 I}{2\pi r}$$

$$\frac{dB_0}{dr} = -\frac{\mu_0 I}{2\pi r^2}$$

$$dB_0 \cdot B_0 < -1$$

QUESTION CASE :



$$B = \frac{\mu_0 I}{2\pi r}$$

$$B' = \frac{\mu_0 I}{2\pi r}$$

$$F = q \cdot B = q \cdot \frac{\mu_0 I}{2\pi r}$$

$$F = 0$$



$$F = 0$$

$$F = 0$$

TORQUE ON MAGNETIC DIPOLE

$$\tau = M \times B = MB \sin \theta$$

$$\tau = MB \sin \theta$$

$$\tau = MB \sin \theta$$

$$\tau = MB \sin \theta$$

WORK DONE IN ROTATING A DIPOLE IN UNIFORM MAGNETIC FIELD

$$W_{ext} = -\Delta W_{mag} = -MB(\cos \theta_2 - \cos \theta_1)$$

$$PE = -MB \cos \theta$$

$$W_{min} PE \rightarrow \theta = 0$$

$$W_{max} PE \rightarrow \theta = \pi$$

$$\frac{dL}{d\theta} = \text{Rate of change of torque with deflection}$$

$$= MB \sin \theta$$

$$\left(\frac{dL}{d\theta}\right)_{max} \text{ at } \theta = 0$$

$$PE_{min} \text{ at } \theta = 0$$

$$PE_{max} \text{ at } \theta = \pi$$

$$OP \text{ POINTS :}$$

12th Physics Key Notes

Joseph Albertus Culler



12th Physics Key Notes:

Mathematical Methods Oscillations Waves, *The Physics of Music and Color* Leon Gunther, 2019-10-14 This undergraduate textbook aids readers in studying music and color which involve nearly the entire gamut of the fundamental laws of classical as well as atomic physics The objective bases for these two subjects are respectively sound and light Their corresponding underlying physical principles overlap greatly Both music and color are manifestations of wave phenomena As a result commonalities exist as to the production transmission and detection of sound and light Whereas traditional introductory physics textbooks are styled so that the basic principles are introduced first and are then applied this book is based on a motivational approach It introduces a subject with a set of related phenomena challenging readers by calling for a physical basis for what is observed A novel topic in the first edition and this second edition is a non mathematical study of electric and magnetic fields and how they provide the basis for the propagation of electromagnetic waves of light in particular The book provides details for the calculation of color coordinates and luminosity from the spectral intensity of a beam of light as well as the relationship between these coordinates and the color coordinates of a color monitor The second edition contains corrections to the first edition the addition of more than ten new topics new color figures as well as more than forty new sample problems and end of chapter problems The most notable additional topics are the identification of two distinct spectral intensities and how they are related beats in the sound from a Tibetan bell AM and FM radio the spectrogram the short time Fourier transform and its relation to the perception of a changing pitch a detailed analysis of the transmittance of polarized light by a Polaroid sheet brightness and luminosity and the mysterious behavior of the photon The Physics of Music and Color is written at a level suitable for college students without any scientific background requiring only simple algebra and a passing familiarity with trigonometry The numerous problems at the end of each chapter help the reader to fully grasp the subject

A Text-book of General Physics for College Students Joseph Albertus Culler, 1914

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COMPOSITION IRCAM/CNRS,2017-05-06 Depuis la mathématique en passant par différents domaines tels que la composition musicale assistée par ordinateur l'intelligence artificielle la pulsation plasma et l'accrétion voici quelques notions de compositions musicales et d'objets sonores

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Table of Contents 12th Physics Key Notes

1. Understanding the eBook 12th Physics Key Notes
 - The Rise of Digital Reading 12th Physics Key Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying 12th Physics Key Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 12th Physics Key Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from 12th Physics Key Notes
 - Personalized Recommendations
 - 12th Physics Key Notes User Reviews and Ratings
 - 12th Physics Key Notes and Bestseller Lists
5. Accessing 12th Physics Key Notes Free and Paid eBooks

- 12th Physics Key Notes Public Domain eBooks
 - 12th Physics Key Notes eBook Subscription Services
 - 12th Physics Key Notes Budget-Friendly Options
6. Navigating 12th Physics Key Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - 12th Physics Key Notes Compatibility with Devices
 - 12th Physics Key Notes Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 12th Physics Key Notes
 - Highlighting and Note-Taking 12th Physics Key Notes
 - Interactive Elements 12th Physics Key Notes
 8. Staying Engaged with 12th Physics Key Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 12th Physics Key Notes
 9. Balancing eBooks and Physical Books 12th Physics Key Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 12th Physics Key Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 12th Physics Key Notes
 - Setting Reading Goals 12th Physics Key Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 12th Physics Key Notes
 - Fact-Checking eBook Content of 12th Physics Key Notes
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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