

Calculating the Magnetic Field Due to a Current

Figure 29-1 shows a wire of arbitrary shape carrying a current i . We want to find the magnetic field $\vec{B}$ at a nearby point P . We first mentally divide the wire into differential elements ds and then define for each element a length vector $d\vec{s}$ that has length ds and whose direction is the direction of the current in ds . We can then define a differential *current-length element* to be $i d\vec{s}$; we wish to calculate the field $d\vec{B}$ produced at P by a typical current-length element. From experiment we find that magnetic fields, like electric fields, can be superimposed to find a net field. Thus, we can calculate the net field $\vec{B}$ at P by summing, via integration, the contributions $d\vec{B}$ from all the current-length elements. However, this summation is more challenging than the process associated with electric fields because of a complexity; whereas a charge element dq producing an electric field is a scalar, a current-length element $i d\vec{s}$ producing a magnetic field is a vector, being the product of a scalar and a vector.

Magnitude. The magnitude of the field $d\vec{B}$ produced at point P at distance r by a current-length element $i d\vec{s}$ turns out to be

$$dB = \frac{\mu_0}{4\pi} \frac{i ds \sin \theta}{r^2}, \quad (29-1)$$

where θ is the angle between the directions of $d\vec{s}$ and $\hat{r}$, a unit vector that points from ds toward P . Symbol μ_0 is a constant, called the *permeability constant*, whose value is defined to be exactly

$$\mu_0 = 4\pi \times 10^{-7} \text{ T} \cdot \text{m/A} \approx 1.26 \times 10^{-6} \text{ T} \cdot \text{m/A}. \quad (29-2)$$

Direction. The direction of $d\vec{B}$, shown as being into the page in Fig. 29-1, is that of the cross product $d\vec{s} \times \hat{r}$. We can therefore write Eq. 29-1 in vector form as

$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{i d\vec{s} \times \hat{r}}{r^2} \quad (\text{Biot-Savart law}). \quad (29-3)$$

This vector equation and its scalar form, Eq. 29-1, are known as the **law of Biot and Savart** (rhymes with “Leo and bazaar”). The law, which is experimentally deduced, is an inverse-square law. We shall use this law to calculate the net magnetic field $\vec{B}$ produced at a point by various distributions of current.

Here is one easy distribution: If current in a wire is either directly toward or directly away from a point P of measurement, can you see from Eq. 29-1 that the magnetic field at P from the current is simply zero (the angle θ is either 0° for *toward* or 180° for *away*, and both result in $\sin \theta = 0$)?

Magnetic Field Due to a Current in a Long Straight Wire

Shortly we shall use the law of Biot and Savart to prove that the magnitude of the magnetic field at a perpendicular distance R from a long (infinite) straight wire carrying a current i is given by

$$B = \frac{\mu_0 i}{2\pi R} \quad (\text{long straight wire}). \quad (29-4)$$

The field magnitude B in Eq. 29-4 depends only on the current and the perpendicular distance R of the point from the wire. We shall show in our derivation that the field lines of $\vec{B}$ form concentric circles around the wire, as Fig. 29-2 shows

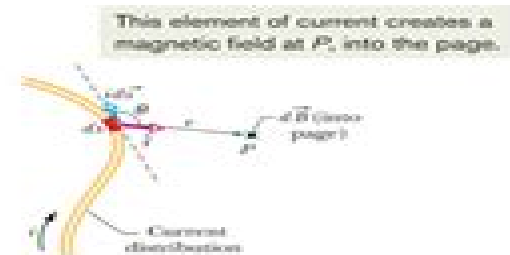


Figure 29-1 A current-length element $i d\vec{s}$ produces a differential magnetic field $d\vec{B}$ at point P . The green $\times$ (the tail of an arrow) at the dot for point P indicates that $d\vec{B}$ is directed into the page there.

The magnetic field vector at any point is tangent to a circle.

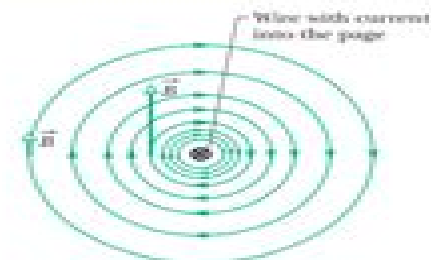


Figure 29-2 The magnetic field lines produced by a current in a long straight wire form concentric circles around the wire. Here the current is into the page, as indicated by the $\times$.

Answers For Magnetic Fundamentals Conceptual Physics

Brendan G. Carr



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Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics Theory Of Magnetism Made Simple, The: An Introduction To Physical Concepts And To Some Useful Mathematical Methods Daniel C Mattis, 2006-03-10 This new version of a classic updates much of the material in earlier editions including the first chapter on the history of the field Important modifications reflect major discoveries of the past decades A historical perspective is maintained throughout The reader is drawn into the process of discovery starting with a phenomenon finding plausible explanations and competing theories and finally the solution The theory of magnetism is practically a metaphor for theoretical physics The very first quantum many body theory Bethe's ansatz was devised for magnetic chains just as mean field theory was invented a century ago by Weiss to explain Curie's Law The first two chapters of this book are immensely readable taking us from prehistory to the spin valves of the most recent past Topics in subsequent chapters include angular momenta and spin Chapter 3 quantum theory of simple systems followed by increasingly technical insights into ordered and random systems thermal fluctuations phase transitions chaos and the like Contemporary developments in nanotechnology now seek to take advantage of the electron's spin as well as of its charge The time is not far off when nano circuits made entirely of silicon exhibit such many body properties as superconductivity or ferromagnetism without any superconducting materials or magnetic ions being present The reader of this book will be prepared for such exotic twenty first century applications Daniel C Mattis BS MS PhD Fellow of the American Physical Society APS is a frequent lecturer at research institutions and the author of several textbooks and numerous research articles His expertise includes many body theory electrical conductivity quantum theory of magnetism and most recently nanotechnology Prof Mattis is on the editorial panel for high temperature superconductivity of the International Journal of Modern Physics B and Modern Physics Letters B both published by World Scientific Currently serving as Professor in the Physics department at the University of Utah in Salt Lake City Utah USA at various times he has been visiting Professor at Yale University New Haven State University of New York Buffalo Temple University Philadelphia and served as Wei Lun Visiting Professor at the Chinese University of Hong Kong A founding member of the Few Body Physics

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Frontiers of Fundamental Physics and Physics Education Research Burra G. Sidharth, Marisa Michelini, Lorenzo Santi, 2014-03-20 In a knowledge based society research into fundamental physics plays a vital role not only in the enhancement of human knowledge but also in the development of new technology that affects everyday life The international symposium series Frontiers of Fundamental Physics FFP regularly brings together eminent scholars and researchers working in various areas in physics to exchange expertise ideas results and new research perspectives The twelfth such symposium FFP12 took place at the University of Udine Italy and covered diverse fields of research astrophysics high energy physics and particle physics theoretical physics gravitation and cosmology condensed matter physics statistical physics computational physics and mathematical physics Importantly it also devoted a great deal of attention to physics education research teacher training in modern physics and popularization of physics The high scientific level of FFP12 was guaranteed by the careful selection made by scientific coordinators from among 250 submissions from 28 countries across the world During the three days of the conference nine general talks were delivered in plenary sessions 29 invited talks were given in specific topic areas and 59 oral presentations were made This book presents a selection of the best contributions at FFP12 with the aim of acquainting readers with the most important recent advances in fundamental physics and in physics education and teacher development

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without solutions *U.S. Government Research Reports*, 1964 Selected Papers (1945-1980), with Commentary Chen Ning Yang, 2005 Consists of 73 articles and added items exclusively for this edition Fundamentals of Classical Fourier Analysis Shashank Tiwari, 2025-02-20 Fundamentals of Classical Fourier Analysis is a comprehensive guide to understanding fundamental concepts techniques and applications of Fourier analysis in classical mathematics This book provides a thorough exploration of Fourier analysis from its historical origins to modern day applications offering readers a solid foundation in this essential area of mathematics Classical Fourier analysis has been a cornerstone of mathematics and engineering for centuries playing a vital role in solving problems in fields like signal processing differential equations and quantum mechanics We delve into the rich history of Fourier analysis tracing its development from Joseph Fourier's groundbreaking work to modern digital signal processing applications Starting with an overview of fundamental concepts and motivations behind Fourier analysis we introduce Fourier series and transforms exploring their properties convergence and applications We discuss periodic and non periodic functions convergence phenomena and important theorems such as Parseval's identity and the Fourier inversion theorem Throughout the book we emphasize both theoretical insights and practical applications providing a balanced understanding of Fourier analysis and its relevance to real world problems Topics include harmonic analysis orthogonal functions Fourier integrals and Fourier transforms with applications in signal processing data compression and partial differential equations Each chapter includes examples illustrations and exercises to reinforce key concepts Historical insights into key mathematicians and scientists contributions are also provided Whether you are a student researcher or practitioner in mathematics engineering or related fields Fundamentals of Classical Fourier Analysis is a comprehensive and accessible resource for mastering Fourier analysis principles and techniques **Journeyman Electrician Exam Prep Mastery 2025-2030** Richard Man, 2025-09-16 Are you preparing to take the Journeyman Electrician Exam and feeling overwhelmed by the sheer amount of material to cover Do you worry about keeping up with the latest updates to the NEC codes and test standards You're not alone many aspiring electricians struggle with knowing exactly what to study how to study it and how to walk into exam day with confidence This comprehensive guide is designed specifically for the 2025-2030 testing period ensuring that every practice question explanation and exam strategy aligns with the most current codes and industry requirements Inside you'll find Clear step by step breakdowns of NEC concepts and calculations 1 000 practice questions with detailed answer explanations Proven test taking strategies tailored to the Journeyman Electrician Exam format Realistic practice exams to build speed and accuracy under pressure Imagine walking into the testing center fully prepared calm and confident knowing you've already mastered the exact concepts you'll face on the exam Passing your Journeyman Electrician Exam isn't just about getting a license it's about opening doors to higher pay greater job security and the ability to work independently in a trade that will always be in demand With this book you'll not only gain the knowledge but also the confidence to succeed on your very first attempt Don't leave your future up to chance

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Angell,2000-05-31 This book describes a number of international comparative studies of pupils achievement and examines the factors associated with successful teaching and learning and with school effectiveness It describes the usefulness of such studies for policy makers test designers researchers and teachers while offering a realistic and critical account of their limitations Both large and small scale studies are considered and particular attention is given to the contribution that international comparative research can make to raising the standards of work especially in school science and mathematics in different educational systems *Developments in Mathematical and Conceptual Physics* Harish Parthasarathy,2020-06-22

This book presents concepts of theoretical physics with engineering applications The topics are of an intense mathematical nature involving tools like probability and random processes ordinary and partial differential equations linear algebra and infinite dimensional operator theory perturbation theory stochastic differential equations and Riemannian geometry These mathematical tools have been applied to study problems in mechanics fluid dynamics quantum mechanics and quantum field theory nonlinear dynamical systems general relativity cosmology and electrodynamics A particularly interesting topic of research interest developed in this book is the design of quantum unitary gates of large size using the Feynman diagrammatic approach to quantum field theory Through this book the reader will be able to observe how basic physics can revolutionize technology and also how diverse branches of mathematical physics like large deviation theory quantum field theory general relativity and electrodynamics have many common issues that provide the starting point for unifying the whole of physics namely in the formulation of Grand Unified Theories GUTS **Literature 1986, Part 1** Prof. Dr. Roland Wielen,S. Böhme,U. Esser,H. Hefele,Inge Heinrich,W. Hofmann,D. Krahn,V. R. Matas,Dr. Lutz D. Schmadel,G. Zech,2013-04-17

College Physics Essentials, Eighth Edition (Two-Volume Set) Jerry D. Wilson,Anthony J. Buffa,Bo Lou,2022-02-28 This new edition of College Physics Essentials provides a streamlined update of a major textbook for algebra based physics The first volume covers topics such as mechanics heat and thermodynamics The second volume covers electricity atomic nuclear and quantum physics 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 Foundations and

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Appleton, Charles Edward Doble, James Sutherland Cotton, Charles Lewis Hind, William Teignmouth Shore, Alfred Bruce Douglas, Ellis Ashmead-Bartlett, Thomas William Hodgson Crosland, 1892 **The Academy**, 1892 **Selected Papers**

(1945-1980) Of Chen Ning Yang (With Commentary) Chen Ning Yang, 2005-08-22 A remarkable personal and professional chronicle by one of today's leading physicists this is a collection of Chen Ning Yang's personally selected papers supplemented by his insightful commentaries Including previously unpublished or hard to find works this volume contains Yang's important papers on statistical physics nuclear forces and particle physics Among them are his seminal work with T D Lee on the nonconservation of parity for which they won the Nobel Prize and his work with R L Mills which led to modern gauge theories with their exciting prospects for the broad unification of field theories The commentaries were written especially for this volume and provide a fascinating account of Yang's development as a physicist as well as a look at many important physicists of the 20th century They trace the development of Yang's interests and ideas from his graduate school days to the present showing how he worked with his colleagues and how their physics came into being Together the papers and commentaries in this unique collection comprise a powerful personal statement shedding light on both the intellectual development of a great physicist and on the nature of scientific inquiry **Magnetic Resonance and Superconductors**

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