

Question:



Two long parallel wires, oriented along the y -axis as shown, contain currents I and $2I$, flowing in opposite directions. Which of the following statements is true?

- a. The magnetic field due to I circles that wire in a counterclockwise direction.
- b. The magnetic force from wire $2I$ on wire I is twice as strong as the force on wire I from wire $2I$.
- c. The magnetic force between the two wires is proportional to the inverse square of the distance between them.
- d. The force on wire $2I$ is in the $+x$ direction.
- e. The force on wire $2I$ is in the $-z$ direction.

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Answer:

The correct answer is *d*. The magnetic field due to wire I circles that wire in a clockwise direction, as determined using the Right Hand Rule. This field is down (in the $-z$ direction) at the location of wire $2I$. By applying another Right Hand Rule, we can determine that the magnetic force on $2I$ due to this magnetic field is in the $+x$ direction.

Wire $2I$ has a force equal in magnitude on wire I . The magnetic force between the two wires can be determined as follows:

Magnitude of magnetic field due to I :

$$B = \frac{\mu_0 I}{2\pi r}, \text{ where } r \text{ is the distance between the wires}$$

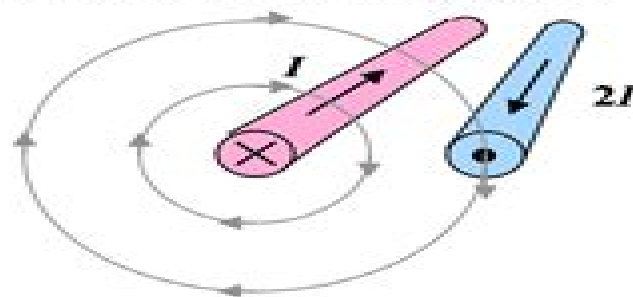
Force on wire $2I$ due to this field :

$$F_B = I\ell \times B$$

$$F_B = (2I)\ell \times \frac{\mu_0 I}{2\pi r}$$

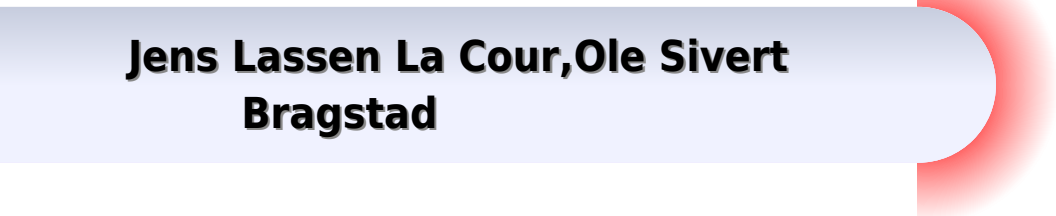
The force per unit length of the wires, then, is:

$$\frac{F_B}{\ell} = \frac{\mu_0 2I^2}{2\pi r}$$



Physics Electricity And Magnetism Problems Solutions

**Jens Lassen La Cour, Ole Sivert
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Physics—Problems, Solutions, and Computer Calculations Wan Muhamad Saridan Wan Hassan, Abd Rahman Tamuri, Muhammad Zaki Yaacob, Roslinda Zainal, 2023-12-05 Knowledge of and skill in physics are essential foundations for studies in science and engineering This book offers students an introduction to the basic concepts and principles of physics It covers various topics specifically related to waves sound electricity magnetism and optics Each chapter begins with a summary of concepts principles definitions and formulae to be discussed as well as ending with problems and solutions that illustrate the specific topic Steps are detailed to help build reasoning and understanding There are 250 worked problems and 100 exercises in the book as well as 280 figures to help the reader visualize the processes being addressed Computer calculations and solutions are carried out using wxMaxima to give insight and help build computational skills The book is aimed at first year undergraduate students studying introductory physics and would also be useful for physics teachers in their instruction particularly the exercises at the end of each chapter *Problems And Solutions On Electromagnetism* Yung-kuo Lim, 1993-03-19 The material for these volumes has been selected from the past twenty years examination questions for graduate students at University of California at Berkeley Columbia University the University of Chicago MIT State University of New York at Buffalo Princeton University and University of Wisconsin This volume comprises 440 problems and is divided into five parts I Electrostatics II Magnetostatic Field and Quasi Stationary Electromagnetic Field III Circuit Analysis IV Electromagnetic Waves V Relativistic Particle Field Interactions Introduction To Electricity And Magnetism: Solutions To Problems John Dirk Walecka, 2019-03-12 The previously published book Introduction to Electricity and Magnetism provides a clear calculus based introduction to a subject that together with classical mechanics quantum mechanics and modern physics lies at the heart of today's physics curriculum The lectures although relatively concise take one from Coulomb's law to Maxwell's equations and special relativity in a lucid and logical fashion That book contains an extensive set of accessible problems that enhances and extends the coverage As an aid to teaching and learning the present book provides the solutions to those problems *Electricity and Magnetism* S. P. Strelkov, I.A. El'Tsin, S. E. Khaikin, 2013-10-22 Problems in Undergraduate Physics Volume II Electricity and Magnetism is part of a series of titles that provides a collection of problems in the various aspects of physics This book is designed to supplement any undergraduate physics textbook This volume is comprised of 10 chapters that provide both problems and solutions in various aspects of electromagnetism The coverage of this text includes direct current laws magnetic field of a current electromagnetic induction alternating currents and electromagnetic waves This selection will be of great use to both instructors and students of undergraduate physics course **Electromagnetism** Carolina C Ilie, Zachariah S Schrecengost, 2016-11-01 Electromagnetism Problems and solutions is an ideal companion book for the undergraduate student sophomore junior or senior who may want to work on more problems and receive immediate feedback while studying Each chapter contains brief

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