

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 :

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

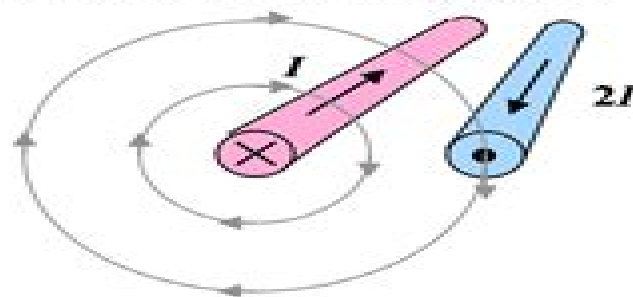
Force on wire $2I$ due to this field :

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

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

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

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



Real Problems Physics Magnetism

**Геннадий Ефимович
Горелик, Antonina W. Bouis**

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New Science Theory and On The Magnet Vincent Wilmot, William Gilbert, 2015-07-22 The first book is basically the New Science Theory com site as on 1 January 2018 for changes since then visit the website with its Sitemap noting updates It is especially good for those interested in physics theory concentrating chiefly on the four great physicists William Gilbert Rene Descartes Isaac Newton and Albert Einstein and also having fine sections on Galileo Kepler History of Science Gravity Light String Theory Standard Model Physics Probability Science Philosophy of Science and General Image Theory Science The second book is a new improved English translation of William Gilbert s banned Latin 1600 *De Magnete or On The Magnet* This is rather easier to read than its two earlier translations and significantly helps to clarify Gilbert s attraction physics which Newton put as one of the two mathematized physics options and which he is believed to have privately favoured It is basically a novel signal response or remote control physics that may still have relevance [Magnetic Field Effects in Low-Dimensional Quantum Magnets](#) Adam Iaizzi, 2018-11-28 This thesis is a tour de force combination of analytic and computational results clarifying and resolving important questions about the nature of quantum phase transitions in one and two dimensional magnetic systems The author presents a comprehensive study of a low dimensional spin half quantum antiferromagnet the J Q model in the presence of a magnetic field in both one and two dimensions demonstrating the causes of metamagnetism in such systems and providing direct evidence of fractionalized excitations near the deconfined quantum critical point In addition to describing significant new research results this thesis also provides the non expert with a clear understanding of the nature and importance of computational physics and its role in condensed matter physics as well as the nature of phase transitions both classical and quantum It also contains an elegant and detailed but accessible summary of the methods used in the thesis exact diagonalization Monte Carlo quantum Monte Carlo and the stochastic series expansion that will serve as a valuable pedagogical introduction to students beginning in this field [Magnetic Interactions in Molecules and Solids](#) Anshul Pandey, 2025-02-20 *Magnetic Interactions in Molecules and Solids* provides an in depth journey into the captivating world of magnetism perfect for both seasoned researchers and those keen to explore the fundamentals Written by leading experts we illuminate the intricate magnetic forces at play within molecules and solid materials combining foundational theories with advanced insights to appeal to readers of varying expertise We start with core magnetism principles spin magnetic moment and magnetic fields preparing readers to delve into complex molecular magnetic interactions Through clear explanations and examples we explore paramagnetism diamagnetism and ferromagnetism providing a comprehensive understanding of molecular magnetism As the focus shifts to solid state magnetism we examine interactions within crystal structures covering topics like magnetic ordering domains and the influence of crystal symmetry Bridging physics chemistry and materials science our interdisciplinary approach offers a unified view of magnetic phenomena Highlighting practical applications from magnetic data storage to MRI technology we connect theory with real

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year undergraduate students and graduate students in the physical sciences *OUR FRAGILE WORLD: Challenges and Opportunities for Sustainable Development - Volume II* M. K. Tolba, 2001-08-23 This publication *Our Fragile World Challenges and Opportunities for Sustainable Development* presents perspectives of several important subjects that are covered in greater detail and depth in the *Encyclopedia of Life Support Systems EOLSS* The contributions to the two volumes provide an integrated presentation of knowledge and worldviews related to the state of Earth's natural resources social resources institutional resources and economic and financial resources They present the vision and thinking of over 200 authors in support of efforts to solve the complex problems connected with sustainable development and to secure perennial life support on The Blue Planet These contributions are holistic informative forward looking and will be of interest to a broad readership This volume presents contributions with focus on the Economic and Institutional Dimensions of Sustainable Development in two sections KNOWLEDGE TECHNOLOGY AND MANAGEMENT Knowledge Technology and Management Economics Finance and trade POLICY AND INSTITUTIONAL IMPLICATIONS FOR SUSTAINABLE DEVELOPMENT Policy Issues Institutional implications Regional Analysis *Glasgow University Calendar* University of Glasgow, 1905

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