

CONCEPTUAL PHYSICS LAB

Magnetic Fields

Chapter 34: Magnetism

Purpose:

To explore the patterns of magnetic fields associated with various magnetic configurations.

Apparatus:

Three bar magnets

Iron filings

Paper

Introduction:

As discussed last semester, electric charges, as it should now be apparent, field associated motions. Furthermore, we will examine the magnetic field associated with magnets. Although the fields associated with these static charges can be seen by their effect on test charges,

Procedure:

Cover the magnets or magnets with a sheet of paper. Then sprinkle iron filings on top of the paper.

Step 1: Place a bar magnet with horizontal north-south as indicated. Use the iron filings to see the pattern of the magnetic field, showing the iron filings on the magnet's field lines. The pattern of iron filings for the bar magnet. Repeat the magnetic field pattern for a single bar magnet (unexcited) below.



Conceptual Physics Practice Chapter 24 Magnetism Activity Paper

Allen G. Debus



Conceptual Physics Practice Chapter 24 Magnetism Activity Paper:

Adapting to a Changing World National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on Undergraduate Physics Education Research and Implementation, 2013-07-24 Adapting to a Changing World was commissioned by the National Science Foundation to examine the present status of undergraduate physics education including the state of physics education research and most importantly to develop a series of recommendations for improving physics education that draws from the knowledge we have about learning and effective teaching Our committee has endeavored to do so with great interest and more than a little passion The Committee on Undergraduate Physics Education Research and Implementation was established in 2010 by the Board on Physics and Astronomy of the National Research Council This report summarizes the committee's response to its statement of task which requires the committee to produce a report that identifies the goals and challenges facing undergraduate physics education and identifies how best practices for undergraduate physics education can be implemented on a widespread and sustained basis assess the status of physics education research PER and discuss how PER can assist in accomplishing the goal of improving undergraduate physics education best practices and education policy

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