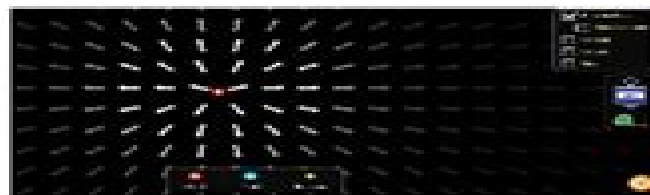


Online Lab: Electric Fields



General Directions:

- Go to the Phet site and download "electric charges and fields"
<https://phet.colorado.edu/en/simulation/charges-and-fields>
- Select "grid", "Show e-field", and "show numbers" in the right box.

Part A: comparing electric fields around + and - charges

- Grab a 1nC charge from the basket and place it in the field.
- Describe how the vector arrows arrange themselves near the charge. Draw simple sketch to show this.

The vector arrows near the charge face outward.



- Put the 1nC charge back and grab a -1nC charge and repeat the process. Draw the sketch here.

The vector arrows near the charge face inward.



- Place 2 more -1nC charges on top of the first one. What happens to the arrows? What do you think that means?

The circumference of the arrows expands further outward. I would assume that this happens because there are more negative charges therefore causing for a stronger negative field.

Part B: using a test charge

- Grab a test charge from the basket and place it about 10 boxes from the negative charges. An E-field arrow appears. What is the direction of the arrow? Towards the charges? Away from the charges?

The direction of the E-field arrow is toward the charges.

- Clear away the negative charges and replace them with a positive charge. Bring in a test charge and put it 10 boxes away. What is the direction of the arrow?

The charge is now facing away from the arrow.

- From these two experiments, what is the sign of the charge of the test charge? Support your answer.

E Fields Phet Lab Answers

EW Minium



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Eye Tracking for STEM Education Research: New Perspectives Pascal Klein, Martin Rusek, Maike Schindler, 2024-04-04 A modern approach to improving education uses the components of experimental scientific research practices based on objective data dissemination of results and the use of modern technologies STEM education research is maturing and new tools and analysis techniques become available As one example eye tracking the recording of persons eye movements has been growing in popularity as it enables researchers to study learning materials effectiveness problem solving and even students approaches during experimentation Eye movements as captured using eye tracking can reveal information about a student s attention and cognition on a process level going well beyond classical product based assessment techniques such as questionnaires or tests

Collected Papers of Carl Wieman C. E. Wieman, 2008 Carl Wieman s contributions have had a major impact on defining the field of atomic physics as it exists today His groundbreaking research has included precision laser spectroscopy using lasers and atoms to provide important table top tests of theories of elementary particle physics the development of techniques to cool and trap atoms using laser light particularly in inventing much simpler less expensive ways to do this the understanding of how atoms interact with one another and light at ultracold temperatures and the creation of the first BoseOCOEinstein condensation in a dilute gas and the study of the properties of this condensate In recent years he has also turned his attention to physics education and new methods and research in that area This indispensable volume presents his collected papers with annotations from the author tracing his fascinating research path and providing valuable insight about the significance of the works Sample Chapter s Introduction 197 KB Contents Precision Measurement and Parity Nonconservation Laser Cooling and Trapping BoseOCOEinstein Condensation Science Education Development of Research Technology Readership Graduates postgraduates and researchers in atomic physics laser physics and general physics

Scientific and Technical Aerospace Reports ,1994-02 Principles of Electric Circuits Thomas L. Floyd, 2000 CD ROM includes 100 EWB circuits for the textbook s troubleshooting and analysis problems demonstration version of EWB version 5 X software and a full student version of EWB version 5 X available for purchase Preface

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977

Energy Research Abstracts ,1987 *Government Reports Announcements & Index* ,1995-12

Physics Briefs ,1990

2008 Physics Education Research Conference Charles Henderson, Mel Sabella, Leon Hsu, 2008-11-21 The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education The conference theme was Physics Education Research with Diverse Student Populations Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community The organizers encouraged physics education researchers who are using research based instructional materials with non traditional students at either the pre college level

or the college level to share their experiences as instructors and researchers in these classes **Chemical Abstracts** ,1991

U.S. Government Research & Development Reports ,1967 *Soviet Journal of Nuclear Physics* ,1973 *Houston (Texas) City Directories* ,1959 Some years are missing *A Concordance to the Poems of Robert Browning* Leslie Nathan Broughton, Benjamin Franklin Stelter, 1924 *Electrical & Electronics Abstracts* ,1994 **INIS Atomindeks** ,1979

Polymer Science & Technology ,1971 **Intractions of Nucleons with Deuterons, Tritons, ^3He , Or ^4He Between 30 MeV and 1 GeV** Betty S. Jackson, 1969 **Genetics Abstracts** ,1989 *U.S. Government Research & Development Reports* ,1967-10

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