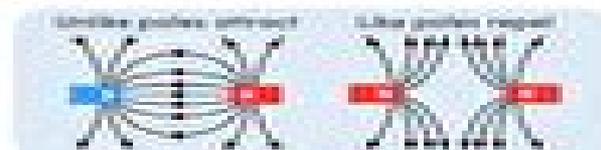


INVESTIGATING THE MAGNITUDE OF MAGNETIC FORCES

Magnets can pull or push on each other without touching. When magnets attract, they pull together. This is called an **attractive magnetic force**. When magnets repel, they push apart. This is called a **repulsive magnetic force**. The diagram shows the magnetic forces between two different pairs of magnets.



The strength of a force is called its **magnitude**. The greater the magnitude of a magnetic force, the stronger the attractive or repulsive force between the magnets. The magnitude of a magnetic force depends on the size of the magnets and the distance between them:

- The larger the size of the magnets, the greater the magnitude of the magnetic force between them.
- The smaller the distance between two magnets, the greater the magnitude of the magnetic force between them.

Look at the pairs of magnets in each problem below. Then answer the questions that follow.

Note: All magnets are made of the same material.

- 1.** Underneath each pair of magnets, write whether they would push away or pull toward each other. Draw a circle around the pair of magnets that shows an attractive magnetic force. Draw a box around the pair of magnets that shows a repulsive magnetic force.



- 2.** Circle the pair of magnets that has the greater magnetic force.



Explain why the pair of magnets you circled above has the greater magnetic force. Is this force attractive or repulsive?

Investigating Magnetic Field Answer Key

R Sandford



Investigating Magnetic Field Answer Key:

Numerical Solution of Hybrid Nanofluid and Its Stability Over Permeable Wedge Sheet With Heat Transfer Analysis Aisha M. Alqahtani, Zeeshan, Waris Khan, Florentin Smarandache, Nidhal Becheikh, Roobaea Alroobaea, Taseer Muhammad, 2024-01-01 The inclusion of nanoparticles has the potential to improve the thermal efficiency of the base fluid The field of nanofluid NF dynamics has attracted important attention due to its extensive range of practical uses like fuel cells solar energy medication administration heat transfer microfabrication coolant applications and other related domains The aim of this study is to scrutinize the impact of Lorentz force thermal energy joule heating heat source and injection parameters and Brownian and thermoporetic diffusions on the hybrid nanofluid over the moving wedge The stability inquiry is reported for the existing work in order to confirm the stable solutions that make the study unique Novelty of the existing work is to investigate the hybrid nanofluid flow and its stability The nanoparticles MoS₂ and Ag are suspended in ethylene glycol and water used as host fluids The numerical solution is obtained from the dimensionless first order differential equations which are achieved from the basic flow phenomena through similarity alteration variables The influence of emerging factors on flow phenomena is reported via graphs The positive eigenvalues report stable solutions while the negative eigenvalues designate unstable solutions It is perceived that due to Lorentz force the rate of the fluid declines while the temperature inside the flow channel enhances The velocity profile decreases while the temperature and concentration increase with increasing quantities of permeable factors Similarly the Forchheimer number causes to enhance the flow rate and decrease the heat and concentration outlines The current analysis is validated by the published work [Electricity and Magnetism, Grades 6 - 12](#) John B. Beaver, Ph.D., Don Powers, Ph.D., 2010-01-04 Reinforce good scientific techniques The teacher information pages provide a quick overview of the lesson while student information pages include Knowledge Builders and Inquiry Investigations that can be completed individually or as a group Tips for lesson preparation materials lists strategies and alternative methods of instruction a glossary an inquiry investigation rubric and a bibliography are included Perfect for differentiated instruction Supports NSE and NCTM standards plus the Standards for Technological Literacy **Multi-Wavelength Investigations of Solar Activity (IAU S223)** International Astronomical Union. Symposium, International Astronomical Union, 2004 These Proceedings present the most recent results from the highly successful international solar space missions SOHO CORONAS F TRACE RHESSI YOHKOH and ground observatories around the Earth reported at the IAU Symposium 223 held in St Petersburg Russia June 14 19 2004 These include discussions of the current theories of solar dynamics and activity new constraints provided by the multi wavelength observations of the Sun from the interior to the heliosphere as well as discussions of future coordinated plans and efforts of multi wavelength investigations of the Sun The Proceedings contain the material of seven plenary sessions and three round table discussions [Exploring Physical Science in the Laboratory](#) John T. Salinas , 2019-02-01 This full color manual is designed to satisfy the

content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts

Electricity and Magnetism ,1993 **Scientific and Technical Aerospace Reports** ,1986 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database The Mathematical Theory of Electricity and Magnetism: Magnetism and electrodynamics Henry William Watson, Samuel Hawksley Burbury,1889

Statistical Signal Processing Approach to Investigate Solar Internal Dynamics Mofazzal Hossain Khondekar,2026-02-23 Doctoral Thesis Dissertation from the year 2013 in the subject Physics Astronomy National Institute Of Technology Durgapur course Electronics and Communication Engineering language English abstract The thesis is titled Statistical Signal Processing Approach to Investigate Solar Internal Dynamics The research primarily investigates the internal dynamics of the Sun using statistical signal processing The Solar Neutrino Flux Density time series obtained from the Sudbury Neutrino Observatory SNO and the Total Solar Irradiance TSI time series taken from the Earth Radiation Budget Satellite ERBS are used as the signals under investigation in this thesis Solar Neutrino Flux Density which originates from the Sun s core contains information about the Sun s internal dynamics whereas Total Solar Irradiance TSI which provides the energy that determines the Earth s climate represents the dynamics of the Earth s climate The signals are pre processed by smoothing and filtering before the nature of their persistence is determined This major finding may help climatologists distinguish between solar and man made influences on climate The form of time dependence of the frequency content of the signals is found to determine the stationarity non stationarity behaviour of the signals The underlying periodicities have also been investigated and compared with the periodicities for other solar activities reported by other scientists The multifractal features of the signals are examined to capture the structural patterns of the signals Efforts have been made to bring to light the complexity of the signals which principally include understanding the nonlinear dynamics and chaos of the signals A statistical link between the observed neutrino flux and the solar irradiance data along with their mutual supportiveness has been discovered in this research thesis

New Frontiers in Hybrid Nanofluids for Heat Transfer Process and Applications Ali Saleh Alshomrani,Safia Akram,2023-07-14 **Classified List of Publications of the Carnegie Institution of Washington** Carnegie Institution of Washington,1921 The Electrical Journal ,1900

Experimental and Theoretical Investigations of Rectangular Grating Slow Wave Structure for Low-voltage Travelling Wave Tube Amplifiers Jurianto Joe,1996 **Science Abstracts** ,1921 *Numerical Investigation of Coronal*

Mass Ejections Interacting in the Inner Heliosphere Noř E.R. Lugaz,2006 **Investigating the Earth** Earth Science Curriculum Project,1967 **Transactions of the Geological Society of South Africa** Geological Society of South Africa,1930 *The Electrician* ,1891 **Engineering Index Annual** ,1929 *The Encyclopaedia Britannica* ,1910
The Encyclopædia Britannica Hugh Chisholm,James Louis Garvin,1926

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