شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية





مراجعة أسئلة وفق الهيكل الوزاري

موقع المناهج ← المناهج الإماراتية ← الصف الثاني عشر العام ← فيزياء ← الفصل الثاني ← الملف

تاريخ نشر الملف على موقع المناهج: 13:22:46 2024-03-16

اعداد: عبد الرحمن عمام

التواصل الاجتماعي بحسب الصف الثاني عشر العام









روابط مواد الصف الثاني عشر العام على تلغرام

<u>الرياضيات</u>

اللغة الانجليزية

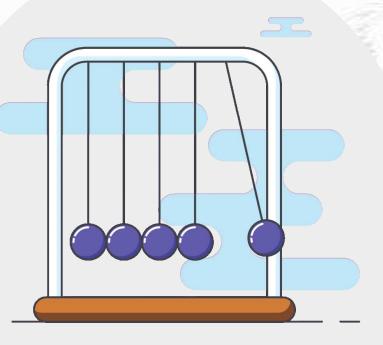
اللغة العربية

<u>التربية الاسلامية</u>

المزيد من الملفات بحسب الصف الثاني عشر العام والمادة فيزياء في الفصل الثاني		
حل وشرح مراجعة وفق الهيكل الوزاري	1	
أسئلة مراجعة الوحدة الخامسة Electromagnetic الكهرومغناطيسية	2	
نموذج الهيكل الوزاري بريدج المسار العام	3	
حل أسئلة الامتحان النهائي	4	
تمارين على درس الدوائر الكهريية	5	

المزيد من الملفات بحسب الصف الثاني عشر العام والمادة فيزياء في الفصل الثاني

12 GEN



2024-2023

Grade 12 GENPhysics

Questions Examcoverage



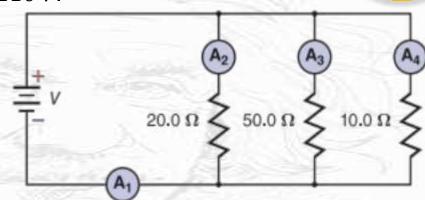
MrAbdelrahmanEsam 0509886279

Solve problems to find the current, voltages and resistances in a parallel circuit. حل مسائل الإيجاد التيار وفروق الجهد والمقاومات في دائرة توازي.

TERM2 12 Gen

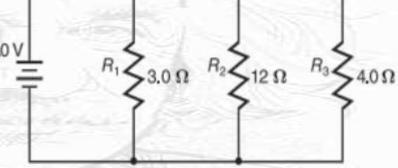
As shown in the figure the battery develops 110 V.

- a. Which resistor is the hottest?
- b. Which resistor is the coolest?
- c. What will ammeter 1 read?
- d. What will ammeter 2 read?
- e. What will ammeter 3 read?
- f. What will ammeter 4 read?



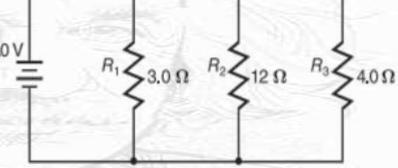
T A						
7-1						
						7.00
• • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
						- 72 C
	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
					111	
	2	77	-0 0			

- **a**. Find the current through each branch of the circuit.
- **b**. Find the equivalent resistance of the circuit.
- **c**. Find the current through the battery



H	
	내가 가는 장사이트 아이들이 가는 아무리스 이번을 보고 있다. 사람들은 아이들이 아니는 것이다.
	4345
9	

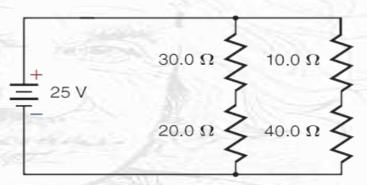
- **a**. Find the current through each branch of the circuit.
- **b**. Find the equivalent resistance of the circuit.
- **c**. Find the current through the battery



H	
	내가 가는 장사이트 아이들이 가는 아무리스 이번을 보고 있다. 사람들은 아이들이 아니는 것이다.
	4345
9	

Solve problems to find the current, voltages and resistances in a parallel circuit. حل مسائل الإيجاد التيار وفروق الجهد والمقاومات في دائرة توازي

- **a**. Find the current through each branch of the circuit.
- **b**. Find the equivalent resistance of the circuit.
- **c**. Find the current through the battery



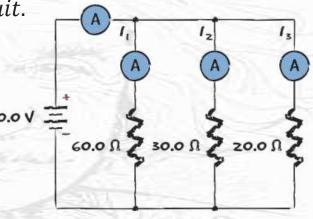
EINSTIEN
Abdelrahaman
0509886279

			7.00
 •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
			1.72.63
 		• • • • • • • • • • • • • • • • • • • •	
77	7 3 7		7/ 1



Solve problems to find the current, voltages and resistances in a parallel circuit..حل مسائل الإيجاد التيار وفروق الجهد والمقاومات في دائرة توازي

- **a**. Find the current through each branch of the circuit.
- **b**. Find the equivalent resistance of the circuit.
- **c**. Find the current through the battery

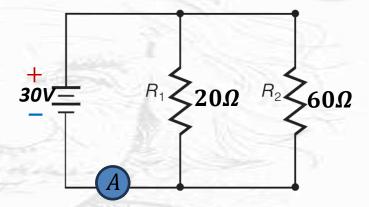


EINSTIEN
<mark>Abdelrahaman</mark>
0509886279

	•••••••••••••••••••••••••••••••••••••••	
		8 - //
	7.	

Solve problems to find the current, voltages and resistances in a parallel circuit..حل مسائل الإيجاد التيار وفروق الجهد والمقاومات في دائرة توازي

- A. Find the equivalent resistance of the circuit?
- B. What is the current through the ammeter?



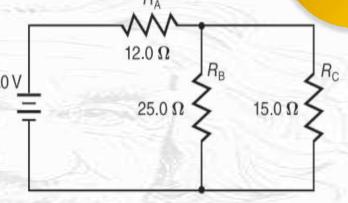
EINSTIEN
Abdelrahaman
0509886279

Calculate the equivalent resistance of combined series-parallel circuits. Q17 Calculate the voltage, current, and power dissipation for any resistor in a combined series-parallel circuit.

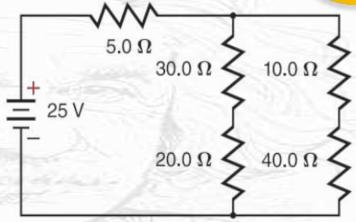
TERM2 12 Gen

the circuit shown below

- A. Find the equivalent resistance of the circuit?
- B. What is the current through the battery?



- A. Find the equivalent resistance of the circuit?
- *B.* What is the current through the battery?

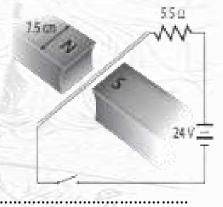


EINSTIEN
<mark>Abdelrahama</mark> n
0509886279

	••••••
•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••

TERM2 12Gen

Determine the force on the wire when the switch is closed and the wire has two 5.5 Ω resistors in series.



EINSTIEN
Abdelrahaman
0509886279

•••••	
	•••••••••••••••••••••••••••••••••••••••
	// Test //

The current through a wire that is 0.80 cm long is 5.0 A. The wire is perpendicular to a 0.60 T magnetic field.

What is the magnitude of the force on the wire?

200			
(291)			
-			
CV			
13/17			5444
	7	12 30 7	

A straight wire carrying a current of 7.2 A has a field of 8.9×10^{-3} T perpendicular to it. What length of wire in the field will experience a force of 2.1 N?

-11	

Assume that a 19 cm length of wire is carrying a current perpendicular to a 4.1 T magnetic field and experiences a force of 7.6 mN.

What is the current in the wire?

am an	
aman 70	
19	

What is the strength of the magnetic field (B)? wire. When 0.10 m of the wire is in the field, the force on the wire is 0.20 N. 5.0 A current is in a uniform magnetic field oriented at right angles to the

1	
NSTIEN	
delrahaman	
09886279	

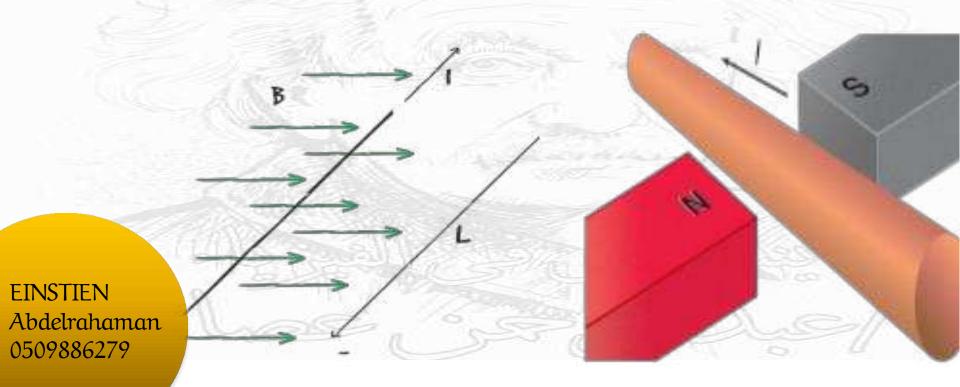
A wire attached to a 5.8 V battery is in a circuit with a resistance of 18 Ω . A 14 cm length of the wire is in a magnetic field of 0.85 T, and the force on the wire is 22 mN. What is the angle of the wire in the field

	{S-1/(45)
- 10	
1	

Apply the right-hand rule to find the direction of the force on a current-carrying wire placed in an external magnetic field.

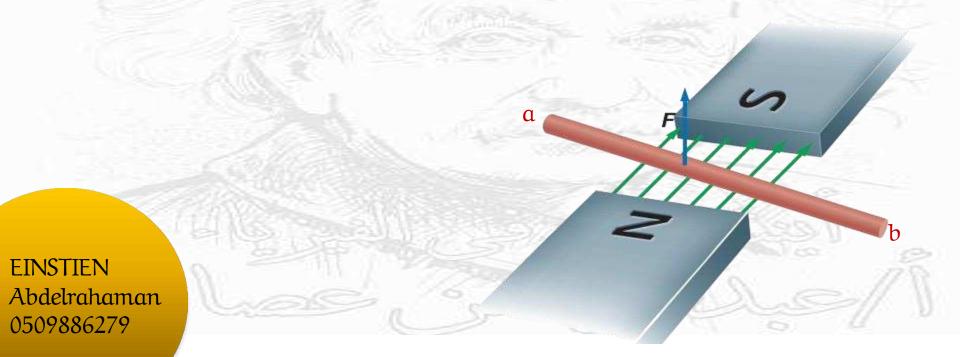
TERM2 12 Gen

What is the direction of the force on the wire



Apply the right-hand rule to find the direction of the force on a current-carrying wire placed in an external magnetic field.

What is the direction of the current on the wire



?? Q19

Explain how fuses, circuit breakers and ground-fault interrupters protect electric circuits and make them safe to operate. Explain the importance of a voltage-divider circuit to achieve a desired potential difference. Describe the principle and working of a simple electric motor and the energy conversions that occur.

A fuse is a short piece of metal that acts as a safety device by melting and stopping the current when too large a current passes through it.

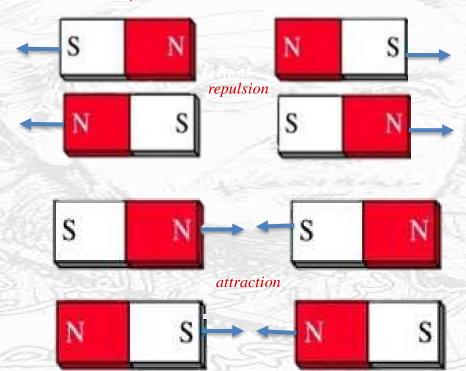
Engineers design fuses to melt before other elements in a circuit are damaged.

A ground — fault interrupter (GFI) is a device that contains an electronic circuit that detects small current differences between the two wires in the cord connected to an appliance. An extra current path, such as one through water, could cause this difference. The GFI stops the current when it detects such differences.

This often protects a person from electrocution.

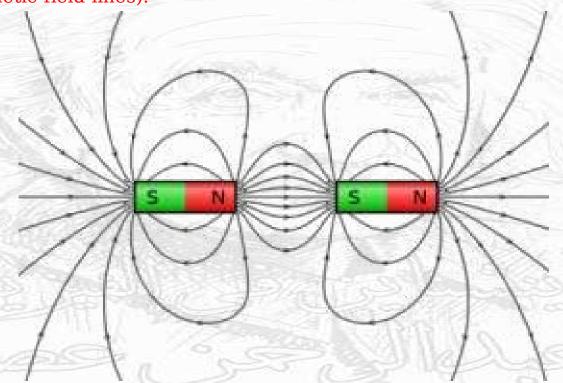
A circuit breaker, is an automatic switch that acts as a safety device by stopping the current if the current gets too large and exceeds a threshold value.

Describe the forces that occur when like or unlike poles of two permanent magnets are brought close together (in terms of the interaction between the magnetic fields and the orientation of the magnetic field lines).

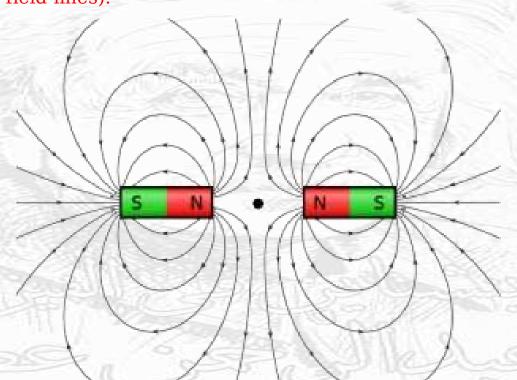


Describe the forces that occur when like or unlike poles of two permanent magnets are brought close together (in terms of the interaction between the magnetic fields and the orientation of the magnetic field lines).

TERM2 12Gen



Describe the forces that occur when like or unlike poles of two permanent magnets are brought close together (in terms of the interaction between the magnetic fields and the orientation of the magnetic field lines).





Apply the equation $F = qvBsin(\theta)$ to calculate the magnitude of the force acting on a charged particle moving in a magnetic field.

A uniform magnetic field of 0.25 T points vertically. A proton enters the field with a horizontal velocity of 4.0×10^6 m/s. What are the magnitude force exerted on the proton?

100	
EINSTIEN	
Abdelrahaman	
Abaenanaman	
)509886279	

A 7.12 μ C charge is moving at the speed $3.0 \times 10^8 m/s$ a magnetic field of 4.02 mT. What is the force on the charge?

INSTIEN	
bdelrahaman	
500886270	



Apply the equation $F = qvBsin(\theta)$ to calculate the magnitude of the force acting on a charged particle moving in a magnetic field.

A magnetic field of 16 T acts in a direction due west. An electron is traveling acting on the electron? due south at 8.1×10^5 m /s. What are the magnitude and direction of the force

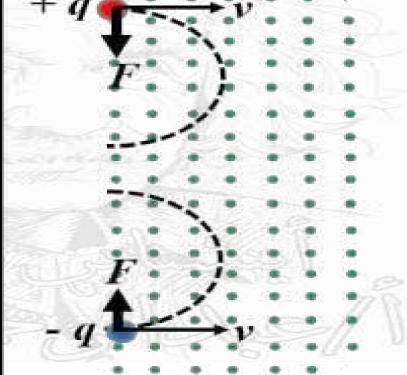
INSTIEN	
bdelrahaman	
509886279	

Apply the equation $F = qvBsin(\theta)$ to calculate the magnitude of the force acting on a charged particle moving in a magnetic field.

An electron is traveling at right angles to a magnetic field at a speed of 4.0×10^4 m/s. The force oneach particle is 6.4×10^{-16} N. What is the magnetic field strength?

INSTIEN	
Abdelrahaman	
509886279	





Apply the equation $F = qvBsin(\theta)$ to calculate the magnitude of the force acting on a charged particle moving in a magnetic field.

at a right angle through a 0.61 T magnetic field. What is the particle's velocity An electron particle experiences a force of 4.1×10^{-13} N when it travels