

The table gives the four possible combinations of the two switches.
Complete the table to show the total circuit resistance for each switch combination.

(3)

Switch combinations	Total circuit resistance
A open. B closed	R
A open. B open	
A closed. B closed	
A closed. B open	

(b) Explain which switch combination dissipates the most energy in a given time.

(2)

(c) The power supply is replaced by one with an internal resistance.

Explain what effect this change will have on the thermal energy output of the heater.

(2)

(Total for Question 11 = 7 marks)

Physics 24th May 2012 Paper

Daniela Niemeyer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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1st Workshop Proceedings of the Collaborative Project "Crystalline Rock Retention Processes" (7th EC FP CP CROCK)
(KIT Scientific Reports ; 7629) Thomas Rabung, Jorge Molinero, David Garcia, Vanessa Montoya, 2012 Robotic Exploration of the Solar System Paolo Ulivi, David M. Harland, 2014-09-16 In Robotic Exploration of the Solar System Paolo Ulivi and David Harland provide a comprehensive account of the design and management of deep space missions the spacecraft involved some flown others not their instruments and their scientific results This fourth volume in the series covers the period 2004 to the present day and features coverage of the Rosetta and Curiosity missions up to the end of 2013 coverage of Mars missions since 2005 including the Mars Reconnaissance Orbiter Phoenix and Fobos Grunt plus a description of plans for future robotic exploration of the Red Planet coverage of all planetary missions launched between 2004 and 2013 including the Deep Impact cometary mission the MESSENGER Mercury orbiter the New Horizons Pluto flyby and the Juno Jupiter orbiter the first complete description of the Chinese Chang e 2 asteroid flyby mission ever published extensive coverage of future missions including the European BepiColombo Mercury orbiter and international plans to revisit the most interesting moons of Jupiter and Saturn ICEL2012- 7th International Conference on E-Learning Paul Lam, 2011 **Data Analytics and Management in Data Intensive Domains** Alexander Elizarov, Boris Novikov, Sergey Stupnikov, 2020-07-13 This book constitutes the post conference proceedings of the 21st International Conference on Data Analytics and Management in Data Intensive Domains DAMDID RCDL 2019 held in Kazan Russia in October 2019 The 11 revised full papers presented together with four invited papers were carefully reviewed and selected from 52 submissions The papers are organized in the following topical sections advanced data analysis methods data infrastructures and integrated information systems models ontologies and applications data analysis in astronomy information extraction from text distributed computing data science for education **Nonlinearity in Energy Harvesting Systems** Elena Blokhina, Abdelali El Aroudi, Eduard Alarcon, Dimitri Galayko, 2016-11-10 This book is a single source guide to nonlinearity and nonlinear techniques in energy harvesting with a focus on vibration energy harvesters for micro and nanoscale applications The authors demonstrate that whereas nonlinearity was avoided as an undesirable phenomenon in early energy harvesters now it can be used as an essential part of these systems Readers will benefit from an overview of nonlinear techniques and applications as well as deeper insight into methods of analysis and modeling of energy harvesters employing different nonlinearities The role of nonlinearity due to different aspects of an energy harvester is discussed including nonlinearity due to mechanical to electrical conversion nonlinearity due to conditioning electronic circuits nonlinearity due to novel materials e g graphene etc Coverage includes tutorial introductions to MEMS and NEMS technology as well as a wide range of applications such as nonlinear oscillators and transducers for energy harvesters and electronic conditioning circuits for effective energy processing **Proceedings of 10th International Conference on Recent Advances in Civil Aviation**

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Canadian Journal of Physics ,2013

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instructional strategies pedagogical frameworks and career preparation techniques this book is an essential reference source for academicians engineering practitioners researchers and industry professionals interested in emerging and future trends in MSE training and education

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web materials 60 red beads 60 yellow beads 4 magnetic centromeres dry erase board desk dry erase marker eraser

procedure answer all questions in your journals please 1 create four homologous chromosomes using the red beads for the paternal chromosome and the yellow beads for the maternal chromosome

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web problem how does meiosis increase genetic variation introduction most cells in organisms that reproduce sexually are diploid they have two sets of chromosomes and two complete sets of genes gametes are an exception gametes are the cells that combine during sexual reproduction in animals these cells are called sperm and eggs

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web the answer is meiosis cells in reproductive organs undergo meiosis as they divide to form germ cells that mature into gametes egg cells or sperm cells this diagram compares the processes of mitosis and meiosis in this descriptive lab you will model meiosis that begins in a cell of the fruit fly *Drosophila melanogaster* you will use

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