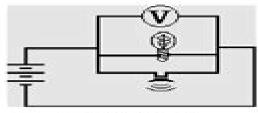
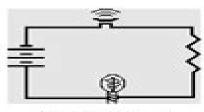
Instructions: Use the links below to read and answer the following questions. The links provided on each worksheet correspond to the questions on that worksheet:

http://www.physicsclassroom.com/Class/circuits/u914a.html http://www.physicsclassroom.com/Class/circuits/u914b.html

 Electrical devices in circuits can be connected to each other in a number of different ways. The two most common connections are series connections and parallel connections. Observe the electrical wiring below. Indicate whether the connections are series or parallel.

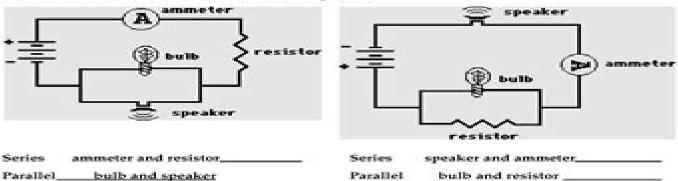


Series or <u>Parallel</u>?



Series or Parallel?

Two electric circuits are diagrammed below. For each circuit, indicate which two devices are connected in series and which two devices are connected in parallel.



3. Comparing Series vs. Parallel Circuits

Fill in the table below to indicate the manner in which series and parallel circuits differ.

|     |  | Series Circuit | Parallel Circuit |
|-----|--|----------------|------------------|
| a.  | Definition: The pathway by which charge<br>loops around the circuit is characterized<br>by pathway(s). | 1              | 2+               |
| Ь   | Observation: If one light bulb goes out,<br>the other light bulbs                                      | go out         | still work       |
| C.  | Observation: As the number of resistors is increased, the overall current                              | deceases       | increases        |
| dl, | Observation: As the number of resistors is increased, the overall resistance                           | increases      | decreases        |

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**Hussin A.Rothana** 

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Scientific and Technical Aerospace Reports ,1991 Resources in Education ,1998 Photon Counting Nikolay Britun, Anton Nikiforov, 2018-03-21 Photon counting is a unified name for the techniques using single photon detection for accumulative measurements of the light flux normally occurring under extremely low light conditions Nowadays this approach can be applied to the wide variety of the radiation wavelengths starting from X ray and deep ultraviolet transitions and ending with far infrared part of the spectrum As a special tribute to the photon counting the studies of cosmic microwave background radiation in astronomy the experiments with muon detection and the large scale fundamental experiments on the nature of matter should be noted The book provides readers with an overview on the fundamentals and state of the art applications of photon counting technique in the applied science and everyday life IEEE Circuits & Devices ,2006

NTT Technical Review ,2004 Nanomagnetic and Spintronic Devices for Energy-Efficient Memory and **Computing** Jayasimha Atulasimha, Supriyo Bandyopadhyay, 2016-03-07 Nanomagnetic and spintronic computing devices are strong contenders for future replacements of CMOS This is an important and rapidly evolving area with the semiconductor industry investing significantly in the study of nanomagnetic phenomena and in developing strategies to pinpoint and regulate nanomagnetic reliably with a high degree of energy efficiency. This timely book explores the recent and on going research into nanomagnetic based technology Key features Detailed background material and comprehensive descriptions of the current state of the art research on each topic Focuses on direct applications to devices that have potential to replace CMOS devices for computing applications such as memory logic and higher order information processing Discusses spin based devices where the spin degree of freedom of charge carriers are exploited for device operation and ultimately information processing Describes magnet switching methodologies to minimize energy dissipation Comprehensive bibliographies included for each chapter enabling readers to conduct further research in this field Written by internationally recognized experts this book provides an overview of a rapidly burgeoning field for electronic device engineers field based applied physicists material scientists and nanotechnologists Furthermore its clear and concise form equips readers with the basic understanding required to comprehend the present stage of development and to be able to contribute to future development Nanomagnetic and Spintronic Devices for Energy Efficient Memory and Computing is also an indispensable resource for students and researchers interested in computer hardware device physics and circuits design Stanford <u>University Electronics Research Review</u>, 1975 Includes brief descriptions of projects listings of contracts and grant support Quantum Optomechanics Warwick P. Bowen, Gerard I. and listings of publications Research Review ,1963-11 Milburn, 2015-11-18 Written by leading experimentalist Warwick P Bowen and prominent theoretician Gerard J Milburn Ouantum Optomechanics discusses modern developments in this novel field from experimental and theoretical standpoints The authors share their insight on a range of important topics including optomechanical cooling and entanglement quantum

limits on Progress in Optics ,2023-04-18 Progress in Optics Volume 68 highlights new advances in the field of optics with this updated volume presenting interesting chapters on a variety of timely topics in the field Chapters in this release include Nonlinear Optical Polarimetry with application in biomicroscopy Single photon Sources Introduction to Tensor Networks and Matrix Product States with Applications in Cavity and Waveguide Quantum Electrodynamics Rotated frames Phase retrieval and more Each chapter is written by an international board of authors who review the latest developments in optics Covers medical imaging physical optics integrated optics and quantum optics Includes contributions from leading authorities in the field of optics Presents timely state of the art reviews on advances in optics

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