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Hence you need a circuit. In Simple terms an electronic circuit is a closed pathway for electrons to flow. The Electric Current in a circuit flows from positive to negative while electrons flow from negative to positive. So when the switch is on the path is complete and electricity passes through enabling the bulb to light up, while when the switch is not on, there is a break in the flow of electricity and the bulb does not light up.

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For use in an introductory circuit analysis or circuit theory course, this text presents circuit analysis in a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step.

Known for its clear problem-solving methodology and its emphasis on design, as well as the quality and quantity of its problem sets, Introduction to Electric Circuits, Ninth Edition by Dorf and Svoboda will help readers to think like engineers. Abundant design examples, design problems, and the How Can We Check feature illustrate the

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texts focus on design. The 9th edition continues the expanded use of problem-solving software such as PSpice and MATLAB. WileyPLUS sold separately from text.

Fundamentals of Electric Circuits continues in the spirit of its successful previous editions, with the objective of presenting circuit analysis in a manner that is clearer, more interesting, and easier to understand than other, more traditional texts. Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and homework problems throughout the text. A balance of theory, worked & extended examples, practice problems, and real-world applications, combined with over 468 new or changed homework problems complete this edition. Robust media offerings, renders this text to be the most comprehensive and student-friendly approach to linear circuit analysis out there. This book retains the "Design a Problem" feature which helps students develop their design skills by having the student develop the question, as well as the solution. There are over 100 "Design a Problem" exercises integrated into problem sets in the book. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

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