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Recent Publications. R.C. Dorf and J.A. Svoboda, Introduction to Electric Circuits, 8th edition, , John Wiley Inc, 2010, ISBN 978-0-470-52157-1. J.A. Svoboda, "Terminal and Port Representations", Fundamentals of Circuits and Filters, 20.1-20, CRC Press, 2009,. Svoboda, J.A.,Portuguese (ISBN 978-85-216-1582-8) and Korean (ISBN 978-957-21-5850-0) translations of Introduction to Electric ...

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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.

The central theme of Introduction to Electric Circuits is the concept that electric circuits are a part of the basic fabric of modern technology. Given this theme, this book endeavors to show how the analysis and design of electric circuits are inseparably intertwined with the ability of the engineer to design complex electronic, communication, computer and control systems as well as consumer products.This book is designed for a one-to three-term course in electric circuits or linear circuit analysis, and is structured for maximum flexibility.

Dorf and Svoboda's text builds on the strength of previous editions with its emphasis on real-world problems that give students insight into the kinds of problems that electrical and computer engineers are currently addressing. Students encounter a wide variety of applications within the problems and benefit from the author team's enormous breadth of knowledge of leading edge technologies and theoretical developments across Electrical and Computer Engineering's subdisciplines.

Textbook for a first course in circuit analysis

"Alexander and Sadiku's sixth edition of 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."—Publisher's website.

The fourth edition of this work continues to provide a thorough perspective of the subject, communicated through a clear explanation of the concepts and techniques of electric circuits. This edition was developed with keen attention to the learning needs of students. It includes illustrations that have been redesigned for clarity, new problems and new worked examples. Margin notes in the text point out the option of integrating PSpice with the provided Introduction to PSpice: and an instructor's roadmap (for instructors only) serves to classify homework problems by approach. The author has also given greater attention to the importance of circuit memory in electrical engineering, and to the role of electronics in the electrical engineering curriculum.