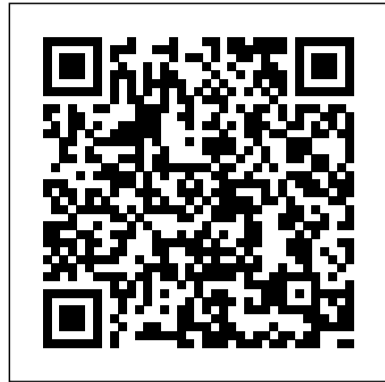


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For example, a very simple electrical circuit consists of three elements: a battery, a lamp, and an electrical wire that connects the two. Circuits can get much more complex, consisting of dozens, hundreds, or even thousands or millions of separate components, all connected with conductors in precisely orchestrated ways so that each component ...

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In this sense, electrical engineering is the branch dealing with "heavy current"—that is, electric light and power systems and apparatuses—whereas electronics engineering deals with such "light current" applications as telephone and radio communication, computers, radar, and automatic control systems.

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Electronics Basics: Fundamentals of Electricity - dummies
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From its beginnings in the late nineteenth century, electrical engineering has blossomed from focusing on electrical circuits for power, telegraphy and telephony to focusing on a much broader range of disciplines. However, the underlying themes are relevant today: Power creation and transmission and information

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Fundamentals of Electrical Engineering I

This current varying in parallel circuits brought about Kirchoff's next big law in basic electrical engineering, Kirchoff's Current Law (KCL). This law basically states that current into a node will equal the current out of the node. In other words, the net current in a node is zero or $0 = I(\text{in}) - I(\text{out})$. Looking at the node (connection ...

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3 Ways to Become an Electrical Engineer - wikiHow

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Practical handbook for electrical engineers (beginners) The reader should get a good fundamental understanding of all the important aspects of the major equipment found in substations and how they are used and operated. The substation equipment discussed in this handbook includes:

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Basics of DC Motors For Electrical Engineers - Beginners (on photo: Small DC motor; via Wikimedia) They are also particularly suitable, up to high power levels (several megawatts), for speed variation with simple, uncomplicated electronic technologies for high performance levels (variation range commonly used from 1 to 100).