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*Physics / Khan Academy My
Number 1 recommendation for
Electronics Books*

Three basic electronics
books reviewed

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An electric circuit is a

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Dummies closed loop made of conductors and other electrical elements through which electric current can flow. For example, a very simple electrical circuit consists of three elements: a battery, a lamp, and an

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Dummies wire that
connects the two.

Electronics Basics:
Fundamentals of Electricity
- dummies
Electrical engineering is

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Dummies comparatively one of the newer branches of engineering, and dates back to the late 19th century. It is that branch of engineering that deals with the technology of...

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A Beginner's guide to
Electrical Engineering | by
...

A summary of the math and
science preparation that
will help you have the best
experience with electrical

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Dummies engineering taught on Khan Academy. Become familiar with engineering numbers and notation, and learn about the two most important electrical quantities: current and voltage.

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Introduction to electrical engineering | Khan Academy
From its beginnings in the late nineteenth century, electrical engineering has blossomed from focusing on electrical circuits for

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power, telegraphy and telephony to focusing on a much broader range of disciplines. However, the underlying themes are relevant today:

Powercreation and transmission and information

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Fundamentals of Electrical
Engineering I
The Beginner's Guide to
Engineering series is
designed to provide a very
simple, non-technical

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Introduction to the fields of engineering for people with no experience in the fields. Each book in the series focuses on introducing the reader to the various concepts in the fields of engineering

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Dummies conceptually rather than mathematically. These books are a great resource for high school students that
...

The Beginner's Guide to

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Dummies: Electrical ...

The three key concepts you need to know before working with electronic circuits are current, voltage, and power. Current is the organized flow of electric charges through a conductor, and

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Dummies is the driving force that pushes electric charges to create current. The third piece of the puzzle is called power (abbreviated P in equations).

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Dummies Basics:

Electrical Power - dummies

Electronics For Dummies

Cheat Sheet. By Cathleen

Shamieh. Electronics is more

than just schematics and

circuits. By using various

components, such as

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Dummies resistors and capacitors, electronics allows you to bend electric current to your will to create an infinite variety of gizmos and gadgets. In exploring electronics, use this handy reference for working with

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Dummies, Ohm's, Joule's, and
Kirchhoff's Laws; making
important calculations;
determining the values of
resistors and capacitors
according to ...

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Cheat Sheet - dummies

In its simplest terms,
electricity is the movement
of charge, which is
considered by convention to
be, from positive to
negative. No matter how the

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charge is created, chemically (like in batteries) or physically (friction from socks and carpet), the movement of the discharge is electricity.

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Dummies Electrical Theory |
Ohms Law, Current, Circuits
& More

Dummies has always stood for taking on complex concepts and making them easy to understand. Dummies helps everyone be more

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Dummies knowledgeable and confident in applying what they know. Whether it's to pass that big test, qualify for that big promotion or even master that cooking technique; people who rely on dummies, rely on it to learn the

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critical skills and relevant
information necessary for
...

Engineering - dummies
Basics of DC Motors For
Electrical Engineers -

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(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

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high performance levels
(variation range commonly
used from 1 to 100).

Basics of DC Motors For
Electrical Engineers -
Beginners

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Dummies are black or red, and neutral wires are white or light gray. For safety, all modern circuits include a bare copper or green insulated grounding wire. The grounding wire conducts current in the event of a

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ground fault and helps reduce the chance of severe electrical shock. The service panel also has a bonding wire connected to a metal water pipe and a grounding wire connected to a metal grounding rod,

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Dummies buried underground, or to another type of grounding electrode.

The Complete Guide to
Electrical Wiring | EEP
The basic equipment in

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Dummies distribution substations includes: transformers, circuit breakers, disconnect switches, bus bars, shunt reactors, power factor correction capacitors, lightning arresters, instrumentation, control

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and other protective apparatus related to the specific functions in the power station.

Basics Of Distribution
Substations For Electrical

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Power engineering is often
analyzed along the three
components of generation,
transmission and
distribution. Power

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engineers that work on generation convert other forms of energy into electric power. These sources of power include fossil fuels such as coal and natural gas, hydropower, nuclear power, solar power,

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and wind power.

The Basics of Power & Energy
Engineering - IEEE Power ...
Circuit Analysis For Dummies
Cheat Sheet. By John
Santiago. When doing circuit

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analysis, you need to know some essential laws, electrical quantities, relationships, and theorems. Ohm's law is a key device equation that relates current, voltage, and resistance. Using

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Dummies's laws, you can simplify a network of resistors using a single equivalent resistor.

Circuit Analysis For Dummies
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