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The book covers all  
the basic aspects of  
electronics

engineering, from  
electronic materials  
to devices, and then  
to basic electronic  
circuits. The book can  
be used for freshman



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(first year) and sophomore (second year) courses in undergraduate engineering. It can also be used as a supplement or primer for more advanced courses in electronic circuit design.

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This tutorial supplies basic information on how to use electronic components and explains the logic behind solid state circuit design.

Starting with an introduction to semiconductor physics, the tutorial moves on to cover topics such as

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resistors, capacitors, inductors, transformers, diodes, and transistors. Some of the topics and the circuits built with the components discussed in this tutorial are elaborately discussed in the ELECTRONIC CIRCUITS tutorial.

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~~Tutorial~~ Electronics

Tutorialspoint  
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The first step to take, is to get a simple understanding of the basic concepts in electronics for beginners. Voltage, Current and Resistance. Current is measured in Amp or A; Voltage is measured in Volt or V; Resistance is

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measured in Ohm or ;

Here is a nice  
illustration: Learn  
more about the  
basics of current,  
voltage and  
resistance.

Schematics

~~The Simple Guide To  
Learning Electronics  
For Beginners~~

Basic Electrical and  
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Engineering is a common subject for first-year students who have chosen their branch as ECE, CEC, Civil, Mechanical, and more (expect BT). This subject provides an exceptional appearance to the entire extent of topics like Electricity Fundamentals,

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Network Theory,  
Electro-magnetism,  
Electrical Machines,  
Transformers,  
Measuring  
Instruments, Power  
Systems,  
Semiconductor  
Devices, Digital  
Electronics, and  
Integrated Circuits.

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Here are some of the most asked basic Electronics Engineering interview questions.

What is Electronics Engineering?

Electronics engineering is a field of engineering which deals with the utilization of active



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and passive

electronic

components to

design a variety of

different analog and

digital circuits,

devices, and systems.

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~~Interview Questions~~

~~& Answers~~

A schematic diagram

is a graphical

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Representation of an electrical or electronic circuit.

Schematic diagrams use standard electrical symbols which are generally drawn to represent the types and operation of the components they symbolise.

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~~Tutorials and~~

Revision

There are a number of basic concepts that form the foundations of today's electronics and radio technology. Electrical current, voltage, resistance, capacitance, and inductance are a few of the basic elements of electronics and

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radio. Apart from current, voltage, resistance, capacitance, and inductance, there are many other interesting elements to electronic technology.

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Electronics Notes  
Step 1: Electricity.~~

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There are two types of electrical signals , those being alternating current (AC), and direct current (DC). With alternating current, the direction electricity flows throughout the circuit is constantly reversing. You may even say that it is alternating direction.

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Semiconductor — I. •

Materials that permit  
flow of electrons are  
called conductors

(e.g., gold, silver,  
copper, etc.). •

Materials that block  
flow of electrons are  
called insulators (e.g.,

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rubber, glass, Teflon, mica, etc.). •

Materials whose conductivity falls between those of conductors and insulators are called semiconductors.

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discipline which

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utilizes nonlinear and active electrical components to design electronic circuits, devices, integrated circuits and their systems.

The discipline typically also designs passive electrical components, usually based on printed circuit boards.

Electronics is a

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subfield within the wider electrical engineering

academic subject but denotes a broad engineering field that covers subfields such as analog electronics, digital electronics

~~Electronic engineering~~

~~Wikipedia~~

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equipping you with

the skills and

knowledge to

progress to university

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This book is primarily designed to serve as a textbook for undergraduate students of electrical, electronics, and computer engineering, but can also be used for primer courses across other disciplines of engineering and related sciences. The

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book covers all the basic aspects of electronics

engineering, from electronic materials to devices, and then to basic electronic circuits. The book can be used for freshman (first year) and sophomore (second year) courses in undergraduate engineering. It can

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also be used as a supplement or primer for more advanced courses in electronic circuit design. The book uses a simple narrative style, thus simplifying both classroom use and self study. Numerical values of dimensions of the devices, as well as of data in figures



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and graphs have been provided to give a real world feel to the device parameters. It includes a large number of numerical problems and solved examples, to enable students to practice. A laboratory manual is included as a supplement with the textbook material for

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practicals related to the coursework. The contents of this book will be useful also for students and enthusiasts interested in learning about basic electronics without the benefit of formal coursework.

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This book provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. Efforts have been taken to keep the complexity level of the subject to bare minimum so that the students of non electrical/electronics

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can easily understand the basics. It offers an unparalleled

exposure to the entire gamut of topics such as

Electricity

Fundamentals,

Network Theory,

Electro-magnetism,

Electrical Machines,

Transformers,

Measuring

Instruments, Power

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Systems,

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Basic Electronics,

meant for the core

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been designed with the key objective of enhancing the students' knowledge in the field of electronics. Solid state electronics, a rapidly-evolving field of study, has been extensively researched for the latest updates, and the authors have supplemented the

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mathematical  
derivations

illustrated by solved  
examples enhance  
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for instructors,  
together with eight  
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that parallel the text,  
are available online  
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and digital circuits, which are so essential for an understanding of digital electronics. Professor Santiram Kal, with his wealth of knowledge and his years of teaching experience, compresses, within the covers of a single volume, all the aspects of electronics - both analog and

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Engineering  
encompassing  
devices such as

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distinguishing  
feature of the book is  
that it gives case

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studies in modern applications of electronics, including information technology, that is, DBMS, multimedia, computer networks, Internet, and optical communication.

Worked-out examples, interspersed throughout the text, and the large number



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of diagrams should enable the student to have a better grasp of the subject. Besides, exercises, given at the end of each chapter, will sharpen the student's mind in self-study. These student-friendly features are intended to enhance the value of the text and make it both useful and

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