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Basic Circuits Concepts. 1.1

Passive components:

Resistance, Inductance,

Capacitance: series,

parallel combinations,

Kirchoff's law: voltage,

current, linearity. 1.2

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Signal sources: voltage and current sources, nonideal sources, representation under assumption of linearity, controlled sources, VCVS, CCVS, VCCS, CCCS, concept of gain, transconductance,

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Electrical current, voltage,
resistance, capacitance, and
inductance are a few of the
basic elements of

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Engineering 1st Sem. Apart from current, voltage, resistance, capacitance, and inductance, there are many other interesting elements to electronic technology. While some can become quite complicated, it is

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nevertheless possible to
gain a good understanding of
them without delving into
the complicated depths of
these topics.

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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

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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., rubber, glass, Teflon, mica, etc.).

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

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...

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effect of temperature on
resistance. Capacitors, with
uniform and composite
medium, energy stored in
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fundamentals of electronic communication, such as devices and analog and digital circuits, which are so essential for an understanding of digital electronics. Professor Santiram Kal, with his

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techniques (computer systems
and software), observed
during the last decades, has
made possible automation of
data processing in many
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computer-aided design (CAD)
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(CAM) In order to show the
role of computer in the rest
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tioned above, let us
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standard piece of electronic system, or equipment: – formulation of requirements concerning user properties (characteristics, parameters) of the designed equipment, – elaboration of the initial, possibly

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– determination of
mathematical model of the
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on the base of previously established mathematical model, – repeated modification of the adopted diagram (changing its structure or element values) in case, when it does not satisfy the adopted

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of design and technological
documentation, –
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(prototype) series,
according to the prepared
docum- tation, – testing the
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of its electric properties, mechanical durability and sensitivity to environment conditions, – modification of prototype documentation, if necessary, and handing over the documentation to series production. The most

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Important stages of the
process under discussion are
illustrated in Fig. I. 1. xi
xii Introduction Fig. I.

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book is rich in examples and includes numerous solved problems. Further topics, such as signal processing and modeling of non-electric physical phenomena (e.g., hysteresis or biological oscillators) will be

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