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voltages, the two wattmeter  
method, three phase power,  
three phase systems, two

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wye, and delta systems.

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balanced wye-delta

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balanced system, and un-  
balanced three-phase system.  
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parameters, hybrid  
parameters, impedance  
parameters, interconnection  
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of two port networks,  
introduction, pi-equivalent,  
t-parameters, terminals and

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to solve MCQ questions bank:  
Average and effective RMS

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values, combination of  
periodic functions,  
exponential function, non-  
periodic functions, periodic  
functions, random signals,  
sinusoidal functions, time  
shift and phase shift,  
trigonometric identities,

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unit impulse function, and  
unit step function.

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consumption. In addition, the  
increasing demand for portable  
devices intensifies the call from  
industry to design sensor  
elements, an efficient storage  
cell, and large capacity memory  
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related issues have also forced a  
redesign of basic electronic  
components for certain specific  
applications. The researchers,  
designers, and students working  
in the area of electronic devices,  
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devices including UJT,  
thyristors, IGBT,  
Amplifier circuits-BJT,  
JFET and MOSFET  
amplifiers, multistage

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**and differential  
amplifiers, feedback  
amplifiers, and  
oscillators are  
explained  
comprehensively. The  
book explains various p-**

**n junction devices,  
including diode, LED,  
laser diode, Zener  
diode, and Zener diode  
regulator. The different  
types of rectifiers are  
explained in support.**



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construction, operation,  
and characteristics of  
BJT, JFET, MOSFET, UJT,  
Thyristors - SCR, Diac  
and Triac, and IGBT. It  
explains the biasing of**

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**BJT, JFET, and MOSFET  
amplifiers, basic BJT,  
JFET, and MOSFET  
amplifiers with h-  
parameters and r-  
parameters equivalent  
circuits, multistage**

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**amplifiers, BiCMOS**  
**amplifier, single tuned**  
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**power amplifiers, and**  
**frequency response.**

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incorporates a detailed  
discussion of the  
analysis of the current  
series, voltage series,  
current shunt, and  
voltage shunt feedback**

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also includes the  
discussion of the  
Barkhausen criterion for  
oscillations and the  
detailed analysis of  
various oscillator**

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crystal oscillators. The  
book uses  
straightforward and**

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**lucid language to**  
**explain each topic. The**  
**book provides the**  
**logical method of**  
**describing the various**  
**complicated issues and**  
**stepwise methods to make**

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makes the subject more  
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Materials and  
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of materials based on**

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**bandgaps; Types of  
resistors-fixed,  
variable and precision  
etc. like carbon film,  
metal film, wire wound,  
cermets, Their standard  
values specifications**

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**and applications,  
Classification of  
capacitors based on  
dielectrics, Standard  
values, Specifications  
and applications of  
capacitors, Types of**

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**capacitors-electrolytic,**  
**ceramic, paper, mica,**  
**tantalum, plastic film**  
**etc. Study of different**  
**core materials depending**  
**on range of frequencies**  
**for inductors and**

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**transformers;**

Answers

**semiconductor materials,**

**Si, Ge, AIII - BV**

**compounds their**

**properties. Semiconductor**

**Physics Electrical**

**properties of Ge and Si**

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concentration, mobility,  
conductivity, energy  
gap, etc. Law of mass  
action, Generation and  
recombination of free  
charges**

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**(Holes/electrons).**

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Diffusion phenomenon,  
Concentration gradient,  
Einstein relationship,  
Volt equivalent of  
temperature, Total  
current (drift and

**diffusion) potential  
variation within  
continuous and step  
graded semiconductor,  
i.e. p-n  
junction. Semiconductor  
Diode**



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**Characteristics Current  
components in forward  
biased / reverse biased  
p-n junction diode; cut-  
in voltage, Reverse  
saturation current,  
Derivation of  $V/I$**

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(logarithmic) equation  
of diode, Temperature  
dependence of diode  
characteristics,  
Concepts and  
significance of**

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diode switching  
times. Semiconductor  
Diode as Circuit  
Element p-n junction as**

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Full-wave and bridge  
rectifier with and  
without capacitor  
filter, Other types of  
filters-choke input and  
L section filters,**

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rectifier with C filter  
for specified load  
voltage / current and  
ripple. Diode as a  
waveshaping element in  
clipping and clamping**

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**circuits, Voltage multipliers.**

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Circuits and Bias  
Stability BJT as a two-  
port device,  
Configurations of BJT**

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**(CE/CB/CC), Input-output  
and transfer  
characteristics in all  
three configurations  
with relevant V-I  
expressions and  
definitions of d.c.**



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of load line and Q point  
with active, Cut-off and  
saturation regions of  
operations of BJT. Early  
effect, Punch through  
effect, Fixed collector**

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circuits; bias**

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thermal runaway.  
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of BJT as referred to  
datasheets. BJT as Small**

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configuration; concept  
of A.C. equivalent  
circuit of single stage  
amplifier need of**

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capacitors; analysis  
CE/CB/CC amplifier for  
 $A_i$ ,  $A_v$ ,  $R_i$  and  $R_o$  in  
terms of h-parameters;  
simplified h-parameter  
model; effect of biasing**

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performance on single  
stage amplifier, Concept  
of frequency  
response. Field Effect  
Transistor Construction  
of p-channel and n-**

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MOSFET; output and  
transfer characteristics  
of each with definitions  
of parameters like  $g_m$ ,  
 $r_d$  and  $m$  ; biasing  
techniques for all**

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model of FET; analysis  
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input-output impedance;  
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maximum**

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functional description  
with characteristics of  
each of the following  
devices; LED, Photo-  
diode, Photo-transistor,**

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**Photo-conductive cell,  
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**The device which  
controls the flow of  
electrons is called  
electronic device. These  
devices are the main  
building blocks of**

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**electronic circuits.**  
Engineers design and  
test circuits that use  
the electromagnetic  
properties of electrical  
components such as  
resistors, capacitors,

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**inductors, diodes and**  
**transistors to achieve a**  
**particular**  
**functionality. The tuner**  
**circuit, which allows**  
**the user of a radio to**  
**filter out all but a**

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**single station, is just  
one example of such a  
circuit. Integrated  
circuits and other  
electrical components  
can then be assembled on  
printed circuit boards**

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to form more complicated  
circuits. Today, printed  
circuit boards are found  
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trends of the  
electronics devices,  
including processes, and**

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the research on the  
electronics devices is  
confronted with many  
issues including  
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addition, for the  
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with low cost and  
high volume  
manufacturing, the  
solutions for the issues**

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**fundamentals of the**  
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materials and device  
characterization and  
scores of other areas of  
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electronics get coupled**

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some chapters portray  
the advanced concept of**

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an understanding of new  
materials to improve device  
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methodologies to enhance system performance and provides key parameters for exploring the devices and circuit performance based on smart applications. The chapters delve into myriad



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systems, advanced sensor  
design and fabrication using  
MEMS, indirect bootstrap

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using sound, IOT and  
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circuitry. This book is  
comprised of 10 chapters and  
begins with an analysis of  
fundamental relationships and  
basic requirements pertinent  
to the physical realization of

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