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on the reader  
obtaining a clear  
understanding of  
each of the devices  
when it is operated*

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in equilibrium. Ideas  
fundamental to the  
study of electronic  
circuits are also  
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book at a basic level  
to lessen the  
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misunderstandings  
at a higher level. The  
difference between  
linear and non-linear  
operation is  
explored through

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*the use of a variety  
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including amplifiers  
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fundamental  
component and  
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logic gates  
constructed with  
various transistor  
types.*

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the following two  
books, Amplifiers:  
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Response, form an  
appropriate body of  
material for such a  
course. Secondary  
applications include*



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**semester**  
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**reference for**  
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**features, the text will**  
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with

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concepts in a clear,  
concise and  
comprehensive  
manner, such as  
the difficult  
problem of setting  
up the equilibrium  
equations of  
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with the  
considerable  
advances in  
electronic  
techniques,  
from the  
introduction of  
field effect  
transistors to  
the development**

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*circuits. The*  
*opening*  
*chapters*  
*discuss the*  
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*vacuum*  
*electronics and*  
*solid-state*  
*electronics.*  
*The subsequent*  
*chapters deal*  
*with the other*

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***components of  
electronic  
devices and  
their  
functions,  
including  
semiconductor  
diode and  
transistor as  
an amplifier  
and a switch.  
The discussion  
then shifts to***

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**several types  
of field-effect  
transistor and  
the production  
of p-n  
junctions,  
transistors,  
and integrated  
circuits. A  
chapter  
highlights the  
four  
classifications**

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***of thermionic  
valves commonly  
used in  
electronic  
devices,  
namely, diodes,  
triodes,  
tetrodes, and  
pentodes. This  
chapter also  
considers the  
effect of small  
gas introduced***

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to the  
characteristics  
of these  
valves. The  
concluding  
chapters  
discuss some of  
the basic modes  
of operation of  
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circuits and  
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elements found  
in modern  
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technologies  
discussed and  
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*circuits*  
*containing*  
*components such*  
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between the  
equations  
describing  
direct current*

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nonlinear  
behaviour, thus  
making the  
analysis of  
these circuits  
easier to  
comprehend.  
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laws and  
analysis of DC  
circuits  
including those  
containing  
controlled  
sources; AC  
circuits,  
focusing on  
complex  
currents and**

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**voltages, and  
with extension  
to frequency  
domain  
performance;  
opamp circuits,  
including their  
use in  
amplifiers and  
switches;  
change  
behaviour  
within**

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*circuits,*  
And Circuits  
*whether*  
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*intentional*  
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*(small-signal*  
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*performance) or*  
*caused by*  
*unwanted*  
*changes in*  
*components. In*  
*addition to*  
*worked examples*  
*within the text*  
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*and consistent*  
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*operation, this*  
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are impacted by

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provides a  
functional overview  
of electronics and  
an appreciation for  
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electronics can  
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**next seven chapters**  
**introduce**  
**electronic devices**  
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**optical engineers**  
**and build on the**  
**earlier chapters.**  
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provided  
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throughout the  
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book that range  
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calculations to  
sample MATLAB  
scripts. The aim of  
the MATLAB-  
based examples is  
to support an  
understanding of  
the fundamentals

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and relationships  
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behind the  
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electronics, and to  
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provide a starting  
point for creating  
customized code"--

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electronics, new  
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the basics of  
switched mode  
power supplies,  
thirty-one new  
examples, and  
twenty-three PS  
solved problems.**

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IC area and low  
power  
consumption. In  
addition, the  
increasing demand  
for portable devices  
intensifies the call  
from industry to  
design sensor  
elements, an  
efficient storage**

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**cell, and large  
capacity memory  
elements. Several  
industry-related  
issues have also  
forced a redesign of  
basic electronic  
components for  
certain specific  
applications. The  
researchers,  
designers, and**

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circuits, and  
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specifications. This  
breakthrough work  
presents this  
knowledge of**

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technologies and  
materials. This  
outstanding new  
volume presents the  
basic concepts and  
fundamentals  
behind devices,  
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**systems. It is a  
valuable reference  
for the veteran  
engineer and a  
learning tool for  
the student, the  
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without  
redundant  
examples and the  
equation*



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treatment of the  
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*transistors, and  
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basic circuits  
utilising*

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*field-effect  
transistors are  
described, and  
examples are  
presented which  
give a good idea  
of typical  
performance  
parameters and  
the associated  
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