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An integrated circuit (IC) on a printed circuit board. This is called a solid state circuit because all of the electrical action in the circuit occurs within solid materials. Solid-state electronics means

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semiconductor electronics: electronic equipment using semiconductor devices such as transistors, diodes and integrated circuits (ICs).

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Electronics, provides the solutions to selected problems listed in the book. Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book.

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also contains an
extensive appendix
which illustrates the

application of the
fundamentals to

solutions of state-of-the-
art transistor reliability

problems which have
been taught to advanced

undergraduate and

graduate students. This

book is also available as
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theories are developed to better account for the electronic and optical behavior of ordered materials, such as diamond, and disordered materials, such as amorphous silicon.

Finally, the principal quasi-particles (phonons, polarons, excitons, plasmons, and polaritons) that are fundamental to

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such as component
aging (phonons) and
optical performance in
terms of yield (excitons)
or communication speed
(polarons) are discussed.

A modern and concise
treatment of the solid
state electronic devices
that are fundamental to
electronic systems and
information technology

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is provided in this book. The main devices that comprise semiconductor integrated circuits are covered in a clear manner accessible to the wide range of scientific and engineering disciplines that are impacted by this technology. Catering to a wider audience is becoming increasingly important as the field of

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electronic materials and devices becomes more interdisciplinary, with applications in biology, chemistry and electro-mechanical devices (to name a few) becoming more prevalent. Updated and state-of-the-art advancements are included along with emerging trends in electronic devices and their applications. In

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addition, an appendix B containing the relevant physical background will be included to assist readers from different disciplines and provide a review for those more familiar with the area. Readers of this book can expect to derive a solid foundation for understanding modern electronic devices and also be prepared for

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future developments and advancements in this far-reaching area of science and technology.

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provides an introduction
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laying particular
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characteristics of
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to rectification and
power supplies, low-
frequency amplifiers,
sine- and square-wave
oscillators, and high-
frequency effects and

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circuits. Black-box
equivalent circuits of
bipolar transistors,

physical equivalent
circuits of bipolar

transistors, and

equivalent circuits of
field effect transistors

are also covered. This

volume is divided into

three sections comprised
of 11 chapters and

begins with an

introduction to the basic

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physics of bulk
semiconductors, diodes,
and transistors, along
with the construction
and characteristics of
devices and integrated
circuits. Physics is kept
to the minimum
necessary for the
understanding of
devices. Attention then
turns to the fundamental
use of semiconductors
in rectifier, amplifier,

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The high frequency use of transistors is given consideration, and in all examples designs from device characteristics are included. The remaining chapters focus on the development of equivalent circuits of transistors. This approach highlights the alternating current

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operation of devices,
and some of the more
sophisticated circuits

using semiconductor
devices are

demonstrated. This book
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electronics and

electrical engineering.

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provides a readily

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uncomplicated account
of how some
semiconductor devices
work and why they are
designed as they are.
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