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~~24 - Integrated~~

~~Circuits: 555 Timer~~

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~~How Integrated~~

~~Circuits Work - The~~

~~Learning Circuit~~ **What**

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Circuit (IC) *10 circuit design tips every designer must know*
How a 555 Timer IC Works
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10 Cool Electronic Projects on Breadboard
~~Electronics Tutorial, Lessons#52~~ Linear Integrated Circuits
Building Electronic Circuits (Tutorial 8):

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What's inside a
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System PCB *From
Sand to Silicon: the
Making of a Chip |
Intel How a CPU is
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components.*

*Capacitors, Resistors,
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~~Decapping ICs For~~

~~(removing epoxy
packaging from chips
to expose the dies)~~

~~Transistors, How do
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Fairchild Briefing on
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CIRCUIT? What does
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CIRCUIT mean?
INTEGRATED

CIRCUIT explanation

What is an

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A Galco TV Tech Tip

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Focusing specifically
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takes students in
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fundamental physics
to detailed device
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the book focuses

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primarily on silicon devices, each topic can include more depth, and extensive worked examples and practice problems ensure that students understand the details.

*Device Electronics for
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Overview. Focusing

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An integrated circuit or monolithic integrated circuit (also referred to as an IC, a chip, or a microchip)

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is a set of electronic circuits on one small flat piece (or "chip") of semiconductor material that is normally silicon. The integration of large numbers of tiny MOS transistors into a small chip results in circuits that are orders of magnitude smaller, faster, and less expensive than those

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*Integrated circuit -
Wikipedia*

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Nilan Lakmal.

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information for a
course in modern

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electrical engineers.

Offers coverage of
silicon technology,
several topics in basic
semiconductor
physics, and
Hall--effect sensors.

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Richard S ...*

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Sample for: Device

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Summary: This book provides all the required information for a course in modern device electronics taken by undergraduate electrical engineers. Offers coverage of silicon technology, several topics in basic

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semiconductor
physics, and Hall-
effect sensors.
Circuits

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Hall-effect, magnetic
sensing, integrated
circuits are highly
successful examples
of integrated sensors,
that is, integrated
circuits having

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intentional sensitivity to nonelectrical signals. This sensitivity is achieved by incorporating sensing elements on a silicon chip together with bias, amplifying, and signal-processing circuitry.

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Commonly, electronic devices contain circuitry consisting of active semiconductors supplemented with passive elements; such a circuit is described as an electronic circuit.

Electronics deals with electrical circuits that involve active electrical components such as vacuum

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tubes, transistors, For
diodes, integrated
circuits,
optoelectronics, and
...

*Electronics -
Wikipedia*

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Electronics Integrated
circuits have their
origin in the invention

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of the transistor in
1947 by William B.
Shockley and his
team at the American
Telephone and
Telegraph
Company's Bell
Laboratories. [EPUB]
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Modern device
electronics:
semiconductor
fundamentals
including crystals and
energy bands, charge
carriers (electrons
and holes), doping,
and transport, (drift
and diffusion);

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