

# Free ebook Design of analog cmos integrated circuits razavi solutions (Download Only)

an integrated circuit also known as a microchip chip or ic is a small electronic device made up of multiple interconnected electronic components such as transistors resistors and capacitors these components are etched onto a substrate

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integrated circuits are compact electronic chips made up of interconnected components that include resistors transistors and capacitors built on a single piece of semiconductor material such as silicon integrated circuits can contain collections of hundreds to billions of components all working together to make our world go round

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integrated circuit ic an assembly of electronic components fabricated as a single unit in which miniaturized active devices e g transistors and diodes and passive devices e g capacitors and resistors and their interconnections are built up on a thin substrate of semiconductor material typically silicon

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in simple words integrated circuits are the integration of active components transistors and passive components resistors capacitors into a silicon chip

classification of ic there are two types of integrated circuits

linear integrated circuits operational amplifier digital integrated circuits operational amplifier integrated circuits ics are a keystone of modern electronics they are the heart and brains of most circuits they are the ubiquitous little black chips you find on just about every circuit board

1 bulky in size 2 not entirely shockproof 3 reliability 4 more power consumption 5 less durability

the concept of fabricating an entire circuit on a single small block or chip of a semiconductor has revolutionised electronics technology such a circuit is known as integrated circuit ic in this article let s study ic an integrated circuit ic sometimes called a chip microchip or microelectronic circuit is a semiconductor wafer on which thousands or millions of tiny resistors capacitors diodes and transistors are fabricated an ic can function as an amplifier oscillator timer counter logic gate computer memory microcontroller or microprocessor

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photo integrated circuits fit into printed circuit boards pcbs like the green one you can see here notice the thin tracks linking the legs terminals of two different ics together other tracks link the ics to conventional electronic components such as the integrated circuit is the building block of almost all technology today it is a small square or rectangle of semiconductor material often silicon that contains electronic circuits laid down or grown to do computation or other tasks

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integrated circuits have become an essential tool for electrical engineers working with applications as diverse as consumer electronics aerospace systems and medical equipment in the rest of this chapter we will explore the functionality provided by different categories of ics

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