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Integrated circuit design, or IC design, is a subset of electronics engineering, encompassing the particular logic and circuit design techniques required to design integrated circuits, or ICs. ICs consist of miniaturized electronic components built into an electrical network on a monolithic

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semiconductor substrate by photolithography. IC design can be divided into the broad categories of digital and analog IC design. Digital IC design is to produce components such as microprocessors, FPGAs, memo

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Integrated circuit (IC), also called microelectronic circuit, microchip, or chip, 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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chip of semiconductor devices such as transistors and passive electronic components such as resistors and interconnections. The layout is called a mask work because, in photolithographic processes, the multiple etched layers within actual ICs are

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Why is the Layout Design of an Integrated Circuit important? New layout designs of integrated circuits aim mainly at improving the performance efficiency of the circuitry within the limits of the materials and technologies being used. This should result in more functions being carried out with lower power consumption on the same amount of semi-conductor material.

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