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

*Integrated circuit - Wikipedia*

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

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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); unipolar devices with the MOS field effect transistor as a logic device and circuit considerations; basic concepts of generation-recombination and the P-N junction as capacitors and current rectifier with applications in ...