

## Modern Semiconductor Devices Integrated Circuits Solution

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### Semiconductor device fabrication - Wikipedia

Semiconductor device fabrication is the process used to manufacture semiconductor devices, typically the metal-oxide-semiconductor (MOS) devices used in the integrated circuit (IC) chips that are present in everyday electrical and electronic devices. It is a multiple-step sequence of photolithographic and chemical processing steps (such as surface passivation, thermal oxidation, planar ...

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Modern Semiconductor Devices for Integrated Circuits. 3. Electrons and holes are the major characters in the play and carry opposite charge. Their mass however is altered from the mass of an electron in vacuum. The altered mass is called effective mass,  $m_n$  and  $m_p$  4.

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Nearly all modern IC chips are metal-oxide-semiconductor (MOS) integrated circuits, built from MOSFETs (metal-oxide-silicon field-effect transistors). The MOSFET (also known as the MOS transistor), which was invented by Mohamed M. Atalla and Dawon Kahng at Bell Labs in 1959, made it possible to build high-density integrated circuits.

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