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Silicon is a chemical element with symbol Si and atomic number 14. It is a hard and brittle crystalline solid with a blue-grey metallic lustre; and it is a tetravalent metalloid and semiconductor. It is a member of group 14 in the periodic table: carbon is above it; and germanium, tin, and lead are below it. It is relatively unreactive.

Silicon - Wikipedia

Silicon on insulator (SOI) technology refers to the use of a layered silicon "insulator" silicon substrate in place of conventional silicon substrates in semiconductor manufacturing, especially microelectronics, to reduce parasitic device capacitance, thereby improving performance. SOI-based devices differ from conventional silicon-built devices in that the silicon junction is above an ...

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MOSFET Device Physics and Operation

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1, 1-trichloroethane; trichloroethate 1/f, one over "f" noise where "f" is frequency 1D, one dimensional 1T-1C, 1 transistor/1 capacitor 1T-2C, 1 transistor/2 capacitor

Semiconductor Technology Acronyms (Processes such as ...

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Fabrication of Semiconductor Devices

Intrinsic silicon â€“ Bohr model of an isolated silicon atom consists of a nucleus containing 14 protons. â€“ 14 electrons surround the nucleus in specific orbits (know as shells)

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