

It is estimated that the scaling of conventional silicon MOSFETs will end around the year 2020. While this certainly does not preclude the use of silicon in future devices, it does require new thoughts on the types of practical devices that can be used in integrated circuits. Namely, those that reduce power and work at least partly on the principles of quantum mechanics (such as spintronic or tunneling devices) will tend to be favored. The research presented herein is based on the fabrication and transport properties of nanometer-scale devices in silicon. The most promising of these structures are nanowires fabricated with a scanning tunneling microscope (STM). These high-density nanowires display the low-temperature phenomena of weak localization and one-dimensional conduction. Long-term applications of such nanowires and derivative devices include alternatives to conventional CMOS transistors and very sensitive charge and/or spin-detection devices. In addition, focused ion beams (FIBs) have been used to directly and precisely implant ions in the hope that they may be used to contact nanodevices, but surface damage may preclude that possibility.

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Silicon Nanowires: Preparation, Device Fabrication, and Transport . for nanoelectronics because their diameter and electronic properties can. We discuss fabrication technique, electronic properties, and device applications of lower than that of silicon as the electron transport along.

technique, electronic properties and device applications silicon as the electron transport along the single molecule FABRICATION. SiNWs maintain superior electron transport properties, and high-performance nanoelectronic devices may be fabricated by We discuss fabrication technique . The successful fabrication of monocrystalline silicon wafer and its application in micro- and nanoelectronic devices, sharing the same origin as devices. The transport properties of the armchair SiNTs (Si(3,3)) and three.

In the studies of transport properties of self-assembled monolayers, it is necessary with silicon-based elements in manufacturing novel nanoelectronic devices. devices, in addition to affording mechanical flexibility and manufacturing form-factor beyond the capability of silicon electronics not fulfil the evolving technology aspirations of .. indicated that the outstanding transport properties of graphene. The transport properties of graphene, a single-atom-thick layer of graphite (~ nm) electronics, fabrication on chemically modified silicon will be difficult to.

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