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diameter of the order of a nanometre. It can also be defined as the ratio of the length to width being greater than 1000. Alternatively, nanowires can be defined as structures that have a thickness or diameter constrained to tens of nanometers or less and an unconstrained length. At these scales, quantum mechanical effects

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are important—which coined the term "quantum wires". Many different types of nanowires exist, including superconducting, metallic ...

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readily charge can tunnel across the material junctions.

Physics - Harnessing Bound Charge in Semiconductors
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simple and compact hardware platform that can be flexibly reconfigured during operation to perform different logic computations yielding unprecedented circuit design flexibility.

Reconfigurable Silicon Nanowire

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