



Granular Nanoelectronics (Nato Science Series B:)

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The technological means now exists for approaching the fundamental limiting scales of solid state electronics in which a single carrier can, in principle, represent a single bit in an information flow. In this light, the prospect of chemically, or biologically, engineered molecular-scale structures which might support information processing functions has enticed workers for many years. The one common factor in all suggested molecular switches, ranging from the experimentally feasible proton-tunneling structure, to natural systems such as the micro-tubule, is that each proposed structure deals with individual information carrying entities. Whereas this future molecular electronics faces enormous technical challenges, the same limit is already appearing in existing semiconducting quantum wires and small tunneling structures, both superconducting and normal metal devices, in which the motion of a single electron through the tunneling barrier can produce a sufficient voltage change to cut-off further tunneling current. We may compare the above situation with today's Si microelectronics, where each bit is encoded as a very large number, not necessarily fixed, of electrons within a charge pulse. The associated reservoirs and sinks of charge carriers may be profitably tapped and manipulated to provide macro-currents which can be readily amplified or curtailed. On the other hand, modern semiconductor ULSI has progressed by adopting a linear scaling principle to the down-sizing of individual semiconductor devices.

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