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The bottom-up design, construction, and operation of devices and machines on the molecular scale is a topic of great interest in nanoscience and a fascinating challenge for nanotechnology.

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The miniaturization of bulky devices and machines is a process that confronts us on a daily basis. However, nanoscale machines with varied and novel characteristics may also result from the enlargement of extremely small building blocks, namely individual molecules.

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Following an introduction to the general concepts, the authors go on to discuss devices for processing electrons and electronic energy, memories, logic gates and related systems, and, finally, molecular-scale machines.

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