

# Construction of Nanostructures

with modern lithography and atomic manipulation

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Nanostructures have got manifold manifestations. They come across us in lots of situations. As it often is, the nature gives impressive examples what can be reached with nanostructures. A famous one is the lotus leaf. Due to its nanostructured surface, it is completely hydrophobic. This structure acted as a makeshift to invent the teflon pen. Modern micorprocessors would not exist without knowledges about nanostructures. Today, it is even possible to create structures whose components are single atoms. The presentation will give a short review over the nanostructuring technology *lithography* which is commercially used today and over *atomic manipulation*, a new technology in the atomic magnitude with high potential in the future.