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The scanning
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individual atoms, are the cornerstones of nanoscience and nanotechnology today. The inventors of STM, Gerd Binnig and Heinrich Rohrer, were awarded with the Nobel Prize of physics in 1986.

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sharp metallic tip
(usually made from tungsten). This technique utilizes a decay of the tip and sample wavefunctions into the vacuum and their overlap within very short distances (~ 1 nm).

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The scanning tunneling microscope (STM) and the atomic force microscope (AFM), both capable of visualizing and manipulating individual atoms, are the cornerstones of nanoscience and nanotechnology...

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Scanning tunneling
microscopy (STM)

was invented by

Binnig and Rohrer

(see Fig. 2.1) [2,9].

Using the

combination of a

coarse approach and

piezoelectric

transducers, a sharp,

metallic probing tip is

brought into close

proximity with the

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and the atomic force
microscope, both
capable of imaging

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and manipulating
individual atoms,
were crowned with
the Nobel Prize in
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of nanotechnology
today.

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Microscopy has achieved true atomic resolution in the attractive atomic force regime, often referred to as the non-contact AFM. In some cases, its resolution has even surpassed that of STM. The observed bias-dependence of atomic

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forces provides
information about the
details of electronic
structure.

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The scanning
tunneling microscope
and the atomic force
microscope, both
capable of imaging
and manipulating

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individual atoms, were crowned with the Nobel Prize in Physics in 1986, and are the cornerstones of nanotechnology today. The first edition of this book has nurtured numerous beginners and experts since 1993.

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Scanning tunneling

microscope (STM),

type of microscope

whose principle of

operation is based on

the quantum

mechanical

phenomenon known

as tunneling, in which

the wavelike

properties of

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electrons permit them to “tunnel” beyond the surface of a solid into regions of space that are forbidden to them under the rules of classical physics. The probability of finding such tunneling electrons decreases exponentially as the distance from the surface increases.

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the last 15–20 years,
scanning tunneling
microscopy and
spectroscopy
(STM/STS) has
developed into an
indispensable
experimental tool of

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modern condensed
matter physics. This
method provides real-
space dependent
spectroscopic
information of a
solid ' s surface at the
atomic scale.

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A scanning tunneling
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imaging surfaces at
the atomic level. Its
development in 1981
earned its inventors,
Gerd Binnig and
Heinrich Rohrer, then
at IBM Zürich, the
Nobel Prize in Physics
in 1986. STM senses
the surface by using
an extremely sharp
conducting tip that
can distinguish

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features smaller than
0.1 nm with a 0.01
nm depth resolution.

This means that
individual atoms can
routinely be imaged
and manipulated.

Most microscopes are
built for use in ultra ...

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of atomic resolution
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The scanning
tunnelling
microscope (STM)

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was invented by
Binnig and Rohrer
and received a Nobel
Prize of Physics in
1986. Together with
the atomic force
microscope (AFM), it
provides non-
destructive atomic
and subatomic
resolution on
surfaces.

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The scanning tunneling microscope (STM) works by scanning a very sharp metal wire tip over a surface. By bringing the tip very close to the surface, and by applying an electrical voltage to the tip or sample, we can image the surface at an

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extremely small scale
– down to resolving
individual atoms.

Scanning Tunneling
Microscopy -
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Due to its
nondestructive
imaging power,
scanning tunneling
microscopy has found
major applications in

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the fields of physics,
chemistry,
engineering, and
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imaging power, scanning tunneling microscopy has found major applications in the fields of physics, chemistry, engineering, and materials science.

This book provides a comprehensive treatment of scanning tunneling and atomic force microscopy, with full coverage of

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the imaging
mechanism,
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