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instrument: The objective and
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Aberrations and Aberration
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decade Mastering the Science
of refractive cataract surgery
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Microscopy provides an
introduction to aberration-
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electron microscopy imaging in
materials and physical*

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sciences. It covers both the broad beam transmission mode (TEM; transmission electron microscopy) and the scanning transmission mode (STEM; scanning transmission electron microscopy).

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In Transmission Electron ...*~~

*Aberration-Corrected Imaging
in Transmission Electron*

*Microscopy. Limits of
Conventional Atomic-*

Resolution Electron

Microscopy. Aberration-

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*spherical aberration correction
enables researchers to peer
into two-dimensional (2D)
materials and correlate the...*

~~*Aberration-corrected STEM
imaging of 2D materials ...*~~

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The coherent phase contrast
transfer function. Incoherent
contributions . Enhanced
instrument stability.*

*Overcoming the limitation
imposed by partial coherence.*

*Summary. Aberration-
Corrected STEM . Illumination
aperture. Geometrical
aberrations. Partial coherence .
Effective source size.*

Chromatic aberration

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the structure of matter at
genuine atomic resolution. A
prominent role for the imaging
of crystalline samples is played
by the negative spherical
aberration imaging (NCSI)
technique. The physical
background of this technique is
reviewed.~~

~~Negative spherical aberration
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The HD-2700 is an 80-200 kV field-emission-gun scanning transmission electron microscope (STEM) with secondary electron (SE) imaging capability. Bulk and surface structures of a specimen can be imaged simultaneously. With the option for a probe-forming aberration corrector, ultra-high resolution can be achieved for both STEM and SE imaging.

~~Spherical Aberration Corrected STEM/SEM HD-2700~~

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The coherent phase contrast transfer function. Incoherent contributions . Enhanced instrument stability.

Overcoming the limitation imposed by partial coherence.

Summary. Aberration-

Corrected STEM . Illumination aperture. Geometrical

aberrations. Partial coherence . Effective source size.

Chromatic aberration

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microscopy allows us to image the structure of matter at

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genuine atomic resolution. A prominent role for the imaging of crystalline samples is played by the negative spherical aberration imaging (NCSI) technique. The physical background of this technique is reviewed.

~~*Negative spherical aberration
ultrahigh-resolution imaging ...*~~
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