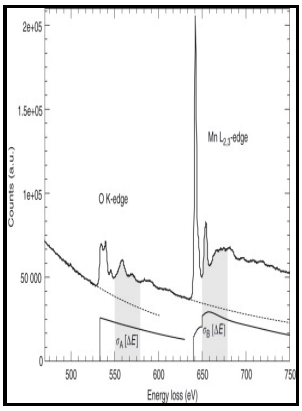
Electronenergy loss spectroscopy and surface vibrations

Academic Press - Electron Energy Loss Spectroscopy and Surface Vibrations



Description: -
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Crystals -- Spectra.
Electron spectroscopy.Electronenergy loss spectroscopy and surface vibrations
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Vibrations at Surfaces, Volume 14

The probe convergence angle was either 15 or 30 mrad, and a 1 mm spectrometer entrance aperture was used corresponding to a collection semi-angle of 15 mrad. Because of the same reason the whole experiment, except the lenses which are normally made of coated copper, is designed in stainless antimagnetic steel and insulating parts are avoided wherever possible.

Surface

Raman spectroscopy was employed for the 1st time to study the role of adsorption at electrodes.

influence of surfaces and interfaces on high spatial resolution vibrational EELS from SiO2

In EELS experiments, the FKS respectively FKA energy varies between the TO respectively LO energy and that of the h-BN interface phonon around 195 meV.

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High-purity cubic boron nitride cBN and hexagonal boron nitride hBN single crystals were synthesized at 4.

Electron Energy Loss Spectroscopy and Surface Vibrations

They also demonstrate that the vibrational signal has both high- and low-spatial-resoln.

Tailored Nanoscale Plasmon

Calculations also show that, at 60 kV, the signal in the SiO 2 can be treated non-relativistically no retardation while the signal in the Si, not surprisingly, is dominated by relativistic effects.

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