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Tamara Radetić, University Of Belgrade Faculty Of Technology And Metallurgy, Beograd, Serbia NFMC

Spring School On Electron Microscopy, April 2011

Outline • SEM – Microscope Features – BSE – SE † X-ray EDS – X-rays - Origin & Characteristics Apr 4th,

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Keep The Grid At Liquid Nitrogen Temperature Sample Preparation For Cryo-EM. ... Limitation On Vertical

Resolution Because Maximum Tilt $\sim 70^\circ$ - Missing Views

From 70-90°, Can Be Filled In By Averaging ...
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Life Easier) Microtubules Rigort, Baumeister Et Al,
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Summer C ... • High-resolution SEM Imaging • Energy
Dispersive Spectroscopy These Topics Will All Build
Around The Course Goals Of Being Able To
Independently Operate The FEI Nova NanoSEM 430 At
The Nanoscale Research Facility And
Understand/analyze SEM-related Data (images,
Spectra, Etc). C. Course Outline A. Tentative Course
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STUDY ... Very Large, Classical Models For Failure
Modes Cannot Always Be Applied. At These Size
Scales, Surface Effects May Become Dominant In
Determining The Mechanical Properties Of The
Material. The Main Reliability Issues For
Microelectromechanical Systems (MEMS) Are Stiction,
Fatigue And Wear. Jun 4th, 2024
Electron Microscopy And X-Ray Crystallography
Electron Microscopy And X-Ray Crystallography
Tianyi Shi 2020-02-13 Contents 1
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Electron Microscopy 2 4 Comparison Of Strengths And
Limitations 3 5 Combining X-ray And Cryo-EM Studies 3
6 Concluding Remarks 4 References 4 Compare The
Strengths And Limitations Of Electron Microscopy And
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Basic Electron Optics N Three Electron Beam Parameters Determine Sharpness, Contrast, And Depth Of Field Of SEM Images: U Probe Diameter - D P U Probe Current - I P U Probe Convergence Angle - α P N You Must Balance These Three Depending On Your Goals: U High Resolution U Best Depth Of Field U Best

Image Quality U Best Analytica Feb 2th, 2024
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NOTE: Vacuum Pump Specifications Dependent On Pump Purchased. Customer Must Ensure That The Pump Used With Plasma Prep RIE Matches The Voltage Rating Of The System Purchased And Be Capable Of At Least 35 Liters Per Minute
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With A Minimal Amount Of Floor Vibration, May 5th, 2024.

Cryo-electron Microscopy For Battery Materials
Transfer At -170 °C
Cu TEM Grid
Liquid N₂
Li {110} Mosaic-type Model
Li₂CO₃
Li₂O
Multilayer Model
Li₂O
Li {110} Amorphous Matrix
Mosaic 5 Nm
Li Metal 5 Nm
Multilayer SEI Atomic Lattice Of Li Metal 1 Nm
A B C
Fig. 1. (a) Schematic Of Cryo-transfer Protocol To Preserve The Native State Of Batteries. (b, C) Two Jan 4th, 2024

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