

Electron diffraction - the nature of defects in crystals: abstracts of papers presented at an international conference.

Pergamon - Macromolecular crystallography radiation damage research: what's new?



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Measuring Lattice Strain in Three Dimensions through Electron Microscopy

Defects exist everywhere in the form of grain boundaries, dislocations, vacancies, and local inclusions, and may have a large impact on macroscopic properties of materials. The works presented during the meeting will be published in an international scientific journal. Finally the thesis presents a detailed structural study of disorders in an aluminosilicate zeolite ITQ-39 by combining HRTEM, RED with sample preparation by ultramicrotomy.

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In biology the method is limited by radiation damage; however by summing many images of identical randomly oriented macromolecules, tomographic density maps can be reconstructed at subnanometre resolution from hydrated proteins which cannot be crystallized e.

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In fact, G-BCS also allows an ILA argument as in the case of D-BCS Chen, 2019. This 3D microscopy method is called electron tomography ET and has been utilized in the fields of materials science and engineering for more than two decades.

Identification of crystal symmetry from noisy diffraction patterns by a shape analysis and deep learning

When the Ni₄Mo ordered phase forms from a Ni—Mo solid solution alloy with a disordered fcc structure, six equivalent orientation variants of the Ni₄Mo phase appear. In this work, using a chain model with a reduced number of degrees of freedom, the behaviour of a CNT bundle under uniaxial lateral compression is investigated.

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