

# 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?



## Description:-

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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.

## Journal of Neutron Research

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.

## Journal of Neutron Research

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 Ni 4Mo ordered phase forms from a Ni—Mo solid solution alloy with a disordered fcc structure, six equivalent orientation variants of the Ni 4Mo 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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