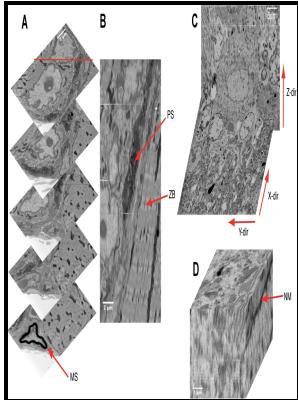


# Electron tomography - three-dimensional imaging with the transmission electron microscope

**Plenum Press - Electron tomography imaging methods with diffraction contrast for materials research**

Description: -



- Agriculture -- Italy -- Lombardy
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- Transmission electron microscopes.
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- The Language of science
- Electron tomography - three-dimensional imaging with the transmission electron microscope
- Notes: Includes bibliographical references and index.
- This edition was published in 1992



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## Three

A needle-type specimen stage is attached to the virtual pivot system and is capable of 360° rotation and subsequent image acquisition in the HR-type pole piece of a JEOL microscope. In the tracheid S1 layer, both S and Z-helical orientations, with an impression of cross-fibrillar structure, were reported Emerton and Goldsmith 1956; Wardrop 1957; Donaldson and Xu 2005. Potassium permanganate, osmium tetroxide, and uranyl acetate are the most common stains used in wood research and are discussed below.

## Ptychographic atomic electron tomography: Towards three

Case B: sufficient satisfaction of the projection requirement: the image intensity is a monotonic function of the thickness. The results from +30° to +45° were corrupted by shadowing from a piece of carbon film and are not used in the analysis. The number of component patterns is limited ideally to the number of phases or orientations in the volume studied.

## Electron tomography : three

Five different combinations of inner and outer angles were simulated. NMF constrains both the components and the loadings to be positive, as a reasonable a priori constraint and in the hope that both may then be physically interpretable: the component patterns resemble conventional diffraction patterns and the loading maps virtual dark-field VDF images. Another issue that arises due to the limited tilt range of the input projection images is harder to describe but easy to illustrate also see the page on dual tilt-axis tomography.

## Electron tomography technique leads to 3

There are several potential causes for the projection requirement violation.

## Ptychographic atomic electron tomography: Towards three

This technique was routinely used to study fiber morphology using TEM, especially at the early stage of its invention Harada 1965. This means that even in cases where the geometry of the specimen holder and the grid allow tilting as high as 70° or 80°, the specimen behaves as if it were much thicker 3x just above 70° and well over 5x at 80°. Alvac ® 718plus TM, superalloy for the next forty years.

### **Electron tomography : three**

The coloured overlay of spots is the auto-correlation of the zero order Laue zone reflections extracted from the 3D reciprocal space reconstructions, with reciprocal lattice basis vectors clearly marked.

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