

Materials analysis using a nuclear microprobe

John Wiley - Nuclear microscopy: A new way of analyzing materials



Description: -

- Materials -- Analysis.

Materials -- Effect of radiation on.

Ion bombardment. Materials analysis using a nuclear microprobe

- Materials analysis using a nuclear microprobe

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The dechanneling from the tilted edges of the initial 'H irradiation are clearly seen, as is dechanneling from the similarly tilted edges of the larger area irradiated with 4~ ions. ION INDUCED DAMAGE IN SEMICONDUCTORS Ion induced damage is one of the main drawbacks of MeV ion analytical techniques and should always be considered in nuclear microprobe analysis, because the high current density in the focused beam produces a higher ion induced defect density than occurs with an unfocused beam. This process, called dechanneling, is caused by the interaction of the ions with the electrons in the channel, and with the nuclei of the channel walls, which are displaced from their equilibrium positions by the thermal vibrations of the lattice.

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In this case, the ion source is usually configured to produce more than 100 pA of positive beam for injection NUCLEAR MICROPROBE COMPONENTS 55 into the charge-exchange canal.

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Therefore, such trajectories are very unstable, and the blocked ions are lost from these paths much more rapidly than channeled ions are dechanneled. It is also used to fix the energy of the beam from an electrostatic accelerator.

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Derouane, Stoichiometric characterization of Y - Ba - Cu - O superconductors with nuclear probes, Nucl. In some cases, images can also be formed from new particles induced from, or created within, the sample.

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