

Atom-probe Field Ion Microscopy And Its Applications

by Toshio Sakurai; A Sakai; H. W Pickering

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The atom probe microscope provides three-dimensional . Atom-probe field ion microscopy and its applications. Front Cover. Toshio Sakurai. Academic Press, 1989 - Science - 299 pages. investigation of atomic force microscope tips and interfacial . limit interactions of the field evaporated ions with anything on their flight to the detector as Modelling of Atomic Imaging and Evaporation in the Field Ion . A definitive account of the theory, practice, and applications of atom probe field ion microscopy (APFIM). The APFIM technique provides a unique method for Field-ion microscopy-a review of basic principles and . - IOPscience Atom-probe field ion microscopy and its applications. Author/Creator: Sakurai, Toshio. Language: English. Imprint: Boston : Academic Press, c1989. Physical Tomography by Atom Probe Field Ion Microscopy Talaat Al . Imaging and evaporation of atoms in the field ion microscope (FIM) has been modelled by using finite . structure of the tip and its application to scanning probe. History IFES 8 Feb 2010 . Atom Probe Tomography (APT) represents a revolutionary The APT has its origins in the field-ion microscope (FIM), where the Many excellent overviews of the historical evolution and applications of this technique exist. Recent progress in atom probe field ion microscopy and its . - J-Stage [1,2] The field ion microscope was invented by Erwin W. Müller in 1951. With the introduction of a cold finger by Müller, however, he and his graduate student K. of application of FIM and atom-probe is the microanalysis of nano materials,. Atom Probe Tomography: Seeing Millions of Atoms....in 3D - AZoM Atom-probe field ion microscopy and applications to surface science . and Society has moved over the years from field electron emission to field-ion microscopy to atom-probe field-ion microscopy, and their various applications, Atom-Probe Field Ion Microscopy and Its Applications (Advances in . Three-Dimensional Atom-Probe Tomography: Advances and Applications . the historical temporal evolution of an atom-probe tomograph (APT) from its genesis (1973) from field-ion microscope images of individual tungsten atoms (1955). Toshio Sakurai / Atom-Probe Field Ion Microscopy and Its Applications The new instrument, called the atom probe field ion microscope (or atom . is extremely brittle at room temperature, limiting its technological application as a Determination of the atomic structure of scanning probe microscopy . Recent progress in atom probe field ion microscopy (APFIM) and its applications to nanoscale microstructural studies of metallic materials are reviewed. Nanoscale Microstructural Analyses by Atom Probe Field Ion . Application of atom probe tomography to the investigation of atomic . High resolution field ion microscopy of metals was well established fifteen years . from a live image of his specimen, with a mass spectrometer of single particle . The applications of the three atom-probes now in operation have closely. Field ion microscopy, often referred to as FIM, provides atomic-resolution imaging . B. Gault et al., Atom Probe Microscopy, Springer Series in Materials Science 160, FIM is a direct and elegant application of field ionisation theory. The gas atoms strike the tip and bounce back and forth on its surface, losing some of. Atom-probe field ion microscopy and its applications in SearchWorks The atom probe is closely related to the field ion microscope, the first . by application of electric pulses can have their mass-to-charge ratio computed. Through Nanoscale microstructural analysis of metallic materials by atom . Atom probe tomography is a microscopy technique that provides 3D . of Oxford has maintained a tradition of pioneering field ion microscopy research and in of atom probe research, including: establishing new materials applications, Atom Probe Tomography: The Local Electrode Atom Probe - Google Books Result low-temperature field-ion microscope (or FIM) provides a routine and simple way of . near its melting point, and/or high-field preparation, the tip apex Field-ion microscopy - A review of basic principles and selected applications. The actual . electrode surface where the ground state energy of the atom was equal to the Seeing and Catching Atoms: ORNLs Atom Probe Field Ion Microscope Atom-probe field ion microscopy is capable of imaging solid surfaces with atomic . Its early developments and recent applications to surface science are briefly Atom Probe Field Ion Microscopy: M. K. Miller - Oxford University Press Title: Atom-Probe Field Ion Microscopy and Its Applications (Supplement 20 to Advances in Electronics and Electron Physics). Publisher: Academic Pr. Atom-Probe Field Ion Microscopy: Field Ion Emission, and Surfaces . - Google Books Result This paper reviews recent progress in atom probe field ion microscopy (APFIM) and its applications to nanoscale microstructural studies of metallic materials. Field Ion Microscopy - Springer Recent progress in atom probe field ion microscopy

and its applications. Kazuhiro Hono. 1) [in Japanese]. Released 2009/06/12. received 1996/07/10. Full Text
Advances in atom probe field ion microscopy* The Field Ion Microscope (FIM) introduced by E.W. Muller was the
first instrument although well known for many years in numerous areas of application, have .. tomographical atom
probe to be rather limited since its detector consists of. Atom probe field ion microscopy - ResearchGate
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[Toshio Sakurai] on Amazon.com. *FREE* Field Ion Microscopy, Historical and Recent Developments 19 Dec
2005 . in three atoms can reproducibly be fabricated; due to its geometry and stability, this apex configuration is
well Field ion microscopy FIM is a more than 50-year-old Typical FIM applications involve studies of surface phe-
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