



Atom Probe Field Ion Microscopy

Dmitriy V. Gorelikov



Atom Probe Field Ion Microscopy:

Atom-probe Field Ion Microscopy and Its Applications Toshio Sakurai, A. Sakai, H. W. Pickering, 1989 **Atom-Probe Field Ion Microscopy** Tien T. Tsong, 1990-08-30 Atom probe field ion microscopy is the only technique capable of imaging solid surfaces with atomic resolution while chemically analysing surface atoms selected by the observer from the field ion image This book presents the basic principles and illustrates the capabilities of the technique in the study of solid surfaces and interfaces at atomic resolution Atom Probe Microscopy Baptiste Gault, Michael P. Moody, Julie M. Cairney, Simon P. Ringer, 2012-08-27 Atom probe microscopy enables the characterization of materials structure and chemistry in three dimensions with near atomic resolution This uniquely powerful technique has been subject to major instrumental advances over the last decade with the development of wide field of view detectors and pulsed laser assisted evaporation that have significantly enhanced the instrument's capabilities The field is flourishing and atom probe microscopy is being embraced as a mainstream characterization technique This book covers all facets of atom probe microscopy including field ion microscopy field desorption microscopy and a strong emphasis on atom probe tomography Atom Probe Microscopy is aimed at researchers of all experience levels It will provide the beginner with the theoretical background and practical information necessary to investigate how materials work using atom probe microscopy techniques This includes detailed explanations of the fundamentals and the instrumentation contemporary specimen preparation techniques experimental details and an overview of the results that can be obtained The book emphasizes processes for assessing data quality and the proper implementation of advanced data mining algorithms Those more experienced in the technique will benefit from the book as a single comprehensive source of indispensable reference information tables and techniques Both beginner and expert will value the way that Atom Probe Microscopy is set out in the context of materials science and engineering and includes references to key recent research outcomes *Atom Probe Tomography* Michael K. Miller, 2012-12-06 The microanalytical technique of atom probe tomography APT permits the spatial coordinates and elemental identities of the individual atoms within a small volume to be determined with near atomic resolution Therefore atom probe tomography provides a technique for acquiring atomic resolution three dimensional images of the solute distribution within the microstructures of materials This monograph is designed to provide researchers and students the necessary information to plan and experimentally conduct an atom probe tomography experiment The techniques required to visualize and to analyze the resulting three dimensional data are also described The monograph is organized into chapters each covering a specific aspect of the technique The development of this powerful microanalytical technique from the origins of field ion microscopy in 1951 through the first three dimensional atom probe prototype built in 1986 to today's commercial state of the art three dimensional atom probe is documented in chapter 1 A general introduction to atom probe tomography is also presented in chapter 1 The various methods to fabricate suitable needle shaped specimens are presented in chapter 2 The procedure to

form field ion images of the needle shaped specimen is described in chapter 3 In addition the appearance of microstructural features and the information that may be estimated from field ion microscopy are summarized A brief account of the theoretical basis for processes of field ionization and field evaporation is also included *Field-Ion Microscopy* R. Wagner,2012-12-06 Despite the recent progress in developing various microanalytical tools of better spatial resolution and more sensitivity to chemical analyses for the study of various defects in metallic solids the Field Ion Microscope FIM still remains the only instrument up to now to resolve single atoms in the surface of a metal Fifteen years after Miller invented the FIM he was also the first to combine the FIM with a time of flight ToF mass spectrometer the so called Atom Probe FIM to identify the chemical nature of single atoms imaged in the FIM2 Originally the motivation to develop the ToF atom probe was to use this method to obtain some more fundamental understanding of field ionization and field evaporation the most basic physical processes in field ion microscopy Even after the successful combination of a FIM with a ToF atom probe had been accomplished the technique was rarely applied to metallurgical investigations since for a fairly long period only refractory metals such as tungsten molybdenum iridium etc could be imaged in the FIM How ever these metals do not play a very important role in metallurgy Only when Turner et al substituted the conventional phosphorescent screen of the field ion microscope with micro channel electron multiplier arrays termed micro channel plates did it become possible to image in the FIM the less refractory metals like Fe Cu Ni and even Al *Atom-probe Field Ion Microscopy* Tien T. Tsong,1990

Atom-Probe Tomography Michael K. Miller,Richard G. Forbes,2014-07-31 Nanocharacterization by Atom Probe Tomography is a practical guide for researchers interested atomic level characterization of materials with atom probe tomography Readers will find descriptions of the atom probe instrument and atom probe tomography technique field ionization field evaporation and field ion microscopy The fundamental underlying physics principles are examined in addition to data reconstruction and visualization statistical data analysis methods and specimen preparation by electropolishing and FIB based techniques A full description of the local electrode atom probe a new state of the art instrument is also provided along with detailed descriptions and limitations of laser pulsing as a method to field evaporate atoms Valuable coverage of the new ionization theory is also included which underpins the overall technique *ATOM PROBE FIELD ION MICROSCOPE*. ,1971 **Local Electrode Atom Probe Tomography** David J. Larson,Ty J. Prosa,Robert M. Ulfing,Brian P. Geiser,Thomas F. Kelly,2013-12-12 This book is the first single source guide to successful experiments using the local electrode atom probe LEAP microscope Coverage is both comprehensive and user friendly including the fundamentals of preparing specimens for the microscope from a variety of materials the details of the instrumentation used in data collection the parameters under which optimal data are collected the current methods of data reconstruction and selected methods of data analysis Tricks of the trade are described that are often learned only through trial and error allowing users to succeed much more quickly in the challenging areas of specimen preparation and data collection A closing chapter on applications

presents selected state of the art results using the LEAP microscope

Atom-probe Field Ion Microscopy and Its Applications (review). Toshio Sakurai, Akira Sakai, Howard W. Pickering, 1988 *The Development and Calibration of the Atom Probe Field-ion Microscope* Daniel Lewis Stoltz, 1972 **Atom Probe Field-ion Microscopy**, 2000 **Atom-probe Field-ion Microscopy** Bernard John Regan, 1973 **A High-resolution Pulsed-laser Atom-probe Field-ion Microscope** Dmitriy V. Gorelikov, 2001 The atom probe field ion microscope is a unique instrument for the analysis of materials on an atom by atom and atomic layer by atomic layer basis It combines a point projection microscope which allows one to observe individual atoms in direct lattice space on the surface of a sharply pointed tip under a high positive voltage with a time of flight mass spectrometer that can measure mass to charge ratios of individual atoms field evaporated from the surface of a tip during a few nanosecond wide high voltage or laser pulse The ability to distinguish atomic isotopes and molecular clusters of one species from the other is crucial in the atom probe analysis of multi component materials One of the main sources of errors in such an analysis is energy deficits of field evaporated ions inherent to the pulsed high voltage evaporation process Therefore in this study the task of designing and fabricating an atom probe field ion microscope capable of compensating these energy deficits and versatile enough to be able to analyze a wide spectrum of engineering materials was undertaken The instrument has the following features a ultrahigh vacuum UHV b a specimen exchange device that will store up to 10 specimens and allows transferring specimens directly from atmospheric pressure to UHV conditions c a closed cycle helium refrigerator with a temperature regulator capable of cooling the specimen to 10 K d a 3D goniometer with 30 tilt in the horizontal and vertical planes e a variable distance high gain MCP assembly for field ion microscopy f a single stage reflectron lens g a 1500 Hz solid state high voltage pulser h a 20 Hz 300 μ J pulse 4 ns pulsed nitrogen laser analysis capability The mass resolution of this instrument is $m/\Delta m = 1800$ at full width half maximum FWHM with high voltage pulsing and $m/\Delta m = 1900$ at FWHM with laser pulsing

Field-ion Microscopy and Atom Probe Analysis Alfred Cerezo, George D. W. Smith, 1994 **An Atom-probe Field-ion Microscope Study of the Range and Diffusivity of Helium in Tungsten** Alfred Wagner, 1978 *Atom Probe Field Ion Microscope* Kaj Gunnar Stolt, 1970 **The Atom-probe Field Ion Microscope**, 1998 The ability to locate an individual atom on a surface remove it in a controlled fashion and determine its chemical identity makes the atom probe field ion microscope an extremely powerful tool for the analysis of solid surfaces By itself the field ion microscope has contributed significantly to the understanding of surface atomic structure single atom surface diffusion and the detailed interactions that occur between atoms and defects on surfaces When used in combination with the atom probe mass spectrometer there have been several additional areas within the traditional definition of surface science where the chemical identification capability of the atom probe has led to new insights In this paper these applications are reviewed focusing on two specific areas surface segregation in intermetallic alloys and chemical reactions on metal surfaces

Analysis at the Atomic Level, 1987 The atom probe field ion

microscope APFIM is a unique analytical instrument that can analyze metals and semiconducting materials on the atomic scale. In recent years the atom probe has developed into one of the most powerful instruments available for routine microstructural and microchemical analysis of materials. The types of investigations that have been performed have encompassed many diverse metallurgical subjects including phase transformations, segregation, diffusion, catalysis, and radiation damage. 3 refs, 3 figs.

Atom Probe Field Ion Microscopy Michael Kenneth Miller, 1996. This book provides a definitive account of the theory, practice, and applications of atom probe field ion microscopy (APFIM). The APFIM technique provides a unique method for observing and chemically identifying single atoms on solid surfaces. Recent advances in the method, which are largely due to the present authors, now permit the atomic scale chemistry of a solid specimen to be recognized in three dimensions. As a result of these developments, new and exciting applications are rapidly emerging in the field of material science, surface science, and catalysis. The book is a state-of-the-art account of this important field and is intended for a graduate level readership.

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