



Low Energy Electron Diffraction

k David H. Templeton

Low Energy Electron Diffraction:

Low-Energy Electron Diffraction Michel A. VanHove, William Henry Weinberg, Chi-Ming Chan, 2012-12-06 Surface crystallography plays the same fundamental role in surface science which bulk crystallography has played so successfully in solid state physics and chemistry. The atomic scale structure is one of the most important aspects in the understanding of the behavior of surfaces in such widely diverse fields as heterogeneous catalysis, microelectronics, adhesion, lubrication, corrosion, coatings, and solid-solid and solid-liquid interfaces. Low Energy Electron Diffraction or LEED has become the prime technique used to determine atomic locations at surfaces. On one hand LEED has yielded the most numerous and complete structural results to date, almost 200 structures, while on the other LEED has been regarded as the technique to beat by a variety of other surface crystallographic methods such as photoemission, SEXAFS, ion scattering, and atomic diffraction. Although these other approaches have had impressive successes, LEED has remained the most productive technique and has shown the most versatility of application from adsorbed rare gases to reconstructed surfaces of semiconductors and metals to molecules adsorbed on metals. However, these statements should not be viewed as excessively dogmatic since all surface sensitive techniques retain untapped potentials that will undoubtedly be explored and exploited. Moreover, surface science remains a multi-technique endeavor. In particular, LEED never has been and never will be self-sufficient. LEED has evolved considerably and in fact has reached a watershed. *Technique of Low Energy Electron Diffraction* Leed J. Helmer, 1977. *Surface Crystallography* L. J. Clarke, 1985. Low Energy Electron Diffraction (LEED) is one of the most commonly used techniques for crystal surface characterization at the atomic level. This book is designed to provide all the essential background information necessary to carry out surface crystallography using LEED. *Low Energy Electron Diffraction* J. B. Pendry, 1974.

Development of an Ultrafast Low-Energy Electron Diffraction Setup Max Gulde, 2015-05-26. This book presents an Ultrafast Low Energy Electron Diffraction (ULEED) system that reveals ultrafast structural changes on the atomic scale. The achievable temporal resolution in the low energy regime is improved by several orders of magnitude and has enabled the melting of a highly sensitive, molecularly thin layer of a polymer crystal to be resolved for the first time. This new experimental approach permits time resolved structural investigations of systems that were previously partially or totally inaccessible, including surfaces, interfaces and atomically thin films. It will be of fundamental importance for understanding the properties of nanomaterials so as to tailor their properties. **Low Energy Electron Diffraction** The Open The Open Courses Library, 2019-12-04. Low Energy Electron Diffraction: Physical Methods in Chemistry and Nano Science. Low energy electron diffraction (LEED) is a very powerful technique that allows for the characterization of the surface of materials. Its high surface sensitivity is due to the use of electrons with energies between 20-200 eV, which have wavelengths equal to 2.7087, comparable to the atomic spacing. Therefore, the electrons can be elastically scattered easily by the atoms in the first few layers of the sample. Its features, such as little penetration of low energy electrons, have positioned it as one of the most

common techniques in surface science for the determination of the symmetry of the unit cell qualitative analysis and the position of the atoms in the crystal surface quantitative analysis Chapter Outline History Davisson and Germer experiment Principles and diffraction patterns LEED experimental equipment LEED applications The Open Courses Library introduces you to the best Open Source Courses *An Experimental Investigation of LEED [i.e. Low-energy Electron Diffraction] at Intermediate Pressures* Michael James O'Driscoll,1969 **Low Energy Electron Diffraction (LEED) and Auger Electron Spectroscopy (AES)** Philip Case Wallin,1989 *Refinements in the Theoretical and Experimental Treatments of Low-energy Electron Diffraction (LEED) as Applied to the Clean Single Crystal Molybdenum Surface, Mo(100)*. Gerard B. Olszewski,1982 **Full Potential Low Energy Electron Diffraction Applied to GaAs(110)** Jörg-Volker Peetz,2002

Proceedings of Th Symposium on "Low Energy Electron Diffraction" at Ramada Inn, Tucson, Arizona, February 4 - 7, 1968 Symposium on Low Energy Electron Diffraction,David H. Templeton,1968 *A Study of Low Energy Electron Diffraction (LEED) Intensities from Cleaved Surfaces of Zinc and Beryllium* John Michael Baker,1970 *Low Energy Electron Diffraction* k David H. Templeton,1968 **Some Aspects in the Theory of Low Energy Electron Diffraction** P. Sondhi,1972 *Theory of Low Energy Electron Diffraction* Alan M. Gibbons,1969 **Low-energy Electron Diffraction Investigation of Epitaxial Growth** ,1990 We investigate the epitaxial growth of Pt and Pd and Pd 100 via spot profile analysis using conventional low energy electron diffraction LEED We resolve a central spike and diffuse component in the spot profiles reflecting the layer occupations and pair correlations respectively Kinetic limitations inhibit layer by layer growth at low temperatures Our data suggest diffusion switches on at ca 150 K for Pt and ca 170 K for Pd indicating activation barriers to surface diffusion of ca 10 and ca 13 kcal mol respectively To clarify the role of diffusion in determining the resulting film morphology we develop a growth model that incorporates the adsorption site requirement and predicts intensity oscillations We present a new procedure to experimentally determine out of phase scattering conditions At these energies ring structure is evident in the profiles during Pd growth between ca 200 and 400 K We report ring intensity oscillations as a function of coverage which demonstrate the filling of individual layers **Extending the Range of Low Energy Electron Diffraction (LEED) Surface Structure Determination** David Franklin Ogletree,1986 *Low Energy Electron Diffraction (LEED) Determination of Surface Structure Applied to Ni(110)-NO and to the Martensitic Alloy Fe-33%Ni(111)* Zeyuan Fan,1991 **A New Low Energy Electron Diffraction Technique Having Possible Application to Catalysis** Lester Halbert Germer,A. U. MacRae,1961 **Low Energy Electron Diffraction (LEED) and Sum Frequency Generation (SFG) Vibrational Spectroscopy Studies of Solid-vacuum, Solid-air and Solid-liquid Interfaces** Saskia Hoffer,2002

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