

Reflection Electron Microscopy and Spectroscopy for Surface Analysis

by Zhong Lin Wang

Introduction

In 1986, E. Ruska was awarded the Nobel Physics Prize for his pioneering work of building the world's first transmission electron microscope (TEM) in the late 1920's. The mechanism of TEM was originally based on the physical principle that a charged particle could be focused by magnetic lenses, so that a "magnifier" similar to an optic microscope could be built. The discovery of wave properties of electrons really revolutionized people's understanding about the potential applications of an TEM. In the last 60 years TEM has experienced a revolutionary development both in theory and electron optics, and has become one of the key research tools for materials characterization (Hirsch et al., 1956; Buseck et al., 1989). The point-to-point image resolution currently available in TEM is better than 0.2 nm, comparable to the interatomic distances in solids.

High resolution TEM is one of the key techniques for real-space imaging of defect structures in crystalline materials. Quantitative structure determination is becoming feasible, particularly with the following technical advances. The installation of an energy-filtering system on an TEM has made it possible to form images and diffraction patterns using electrons with different energy-losses. Accurate structure analysis is possible using the purely elastically scattered electrons, the scattering of which can be exactly simulated using the available theories. The traditional method of recording images on film is being replaced by digital imaging with the use of a charge coupled device (CCD) camera, which has a large dynamical range with single electron detection sensitivity. Thus, electron diffraction patterns and images can be recorded linearly in intensity, and a quantitative fitting is feasible between an experimentally observed image and a theoretically simulated image. This is the future direction of electron microscopy, which allows quantitative structure determination with an accuracy to be comparable to x-ray diffraction. A modern TEM is a versatile machine which not only can explore the crystal structure using imaging and diffraction techniques but also can perform high-spatial resolution

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Guillaume Favre



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