

A practical guide to the analysis of materials, including a description of the underlying theories and instrumental aberrations caused by real experiments. The main emphasis concerns the analysis of thin films and multilayers, primarily semiconductors, although the techniques are very general. Semiconductors can be very perfect composite crystals and therefore their study can lead to the largest volume of information, since X-ray scattering can assess the deviation from perfection. The description is intentionally conceptual so that the reader can grasp the real processes involved. In this way the analysis should become significantly easier, making the reader aware of misleading artifacts and assisting in the determination of a more complete and reliable analysis. The theory of scattering is very important and is covered in such a way that the assumptions are clear. Greatest emphasis is placed on the dynamical diffraction theory including developments extending its applicability to reciprocal space mapping and modelling samples with relaxed and distorted interfaces. A practical guide to the measurement of diffraction patterns, including the smearing effects introduced to the measurement, is also presented.

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High-resolution X-ray reflectivity and diffraction are known as a non-destructive tools for the characterization of semi- conductor materials. Nowadays, they are.

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X-ray scattering has now become a standard metrology within the semiconductor industry and as such is regularly used by analytical scientists and engineers. Postgraduate Course in Micro and Nanosciences. Jori Lemettinen. X-ray diffraction for semiconductor materials characterization. In this chapter, we will address the structural characterization of III-V semiconductor thin films by means of HRXRD. We first give an overview on the basic.

X-ray diffraction experiments directly and nondestructively probe atomic scale structural correlations. When the samples are crystalline, x-ray scattering patterns .

in which f is the force per unit length at a point on a dislocation line, σ is the local stress field, b is the Burgers vector and τ is the local line tangent direction.

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