



3 EURO-TOPO X systems in operation

Characterization of monocrystals by X-ray diffraction

EURO-TOPO X

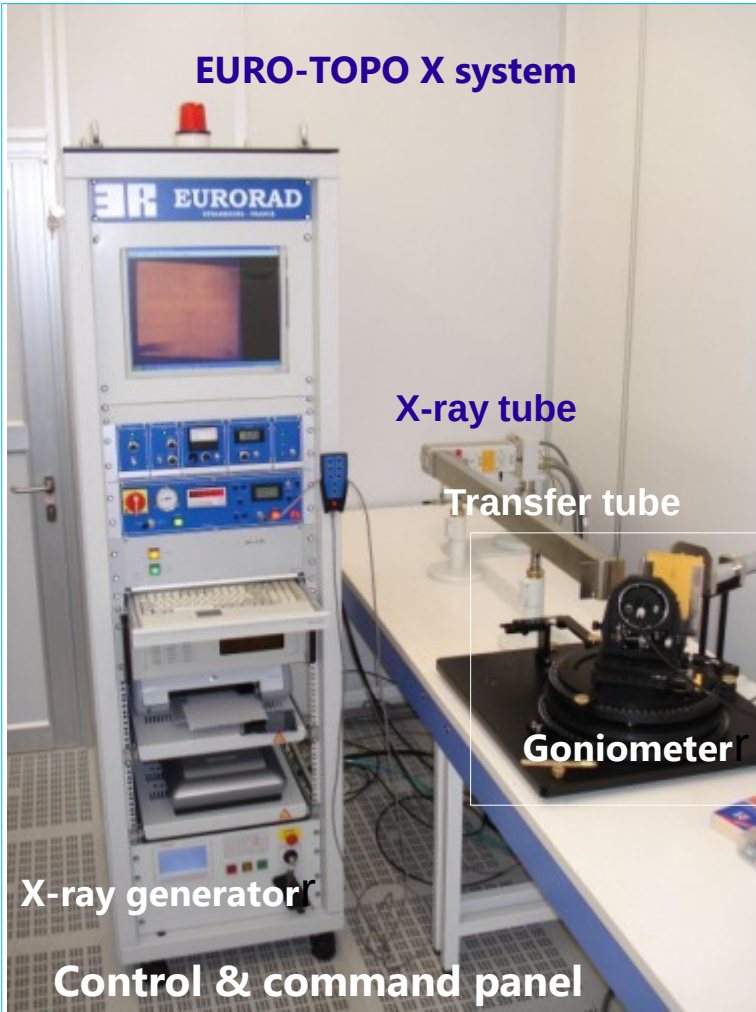
MEASUREMENT OF THE LATTICE PARAMETERS OF AN ORIENTED SINGLE CRYSTAL SAMPLE FOLLOWED BY TOPOGRAPHY ACCORDING TO THE LANG METHOD.

This apparatus is, especially, useful for quick and efficient control of a crystal suffering from a native low defect creation centers and subject, therefore, to mosaicity.

The equipment was principally designed for the inspection of compounds like CdTe and CdZnTe alloy, InSb, PbTe, but it can also be used for quick quality control of any kind of crystal, e.g. in industry.

EURO-TOPO X

EURO-TOPO X system



X-ray tube

Transfer tube

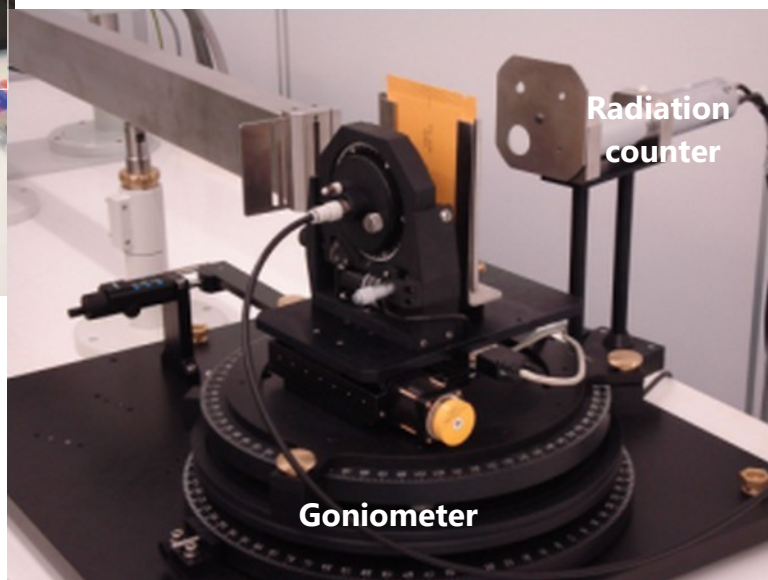
Goniometer

X-ray generator

Control & command panel

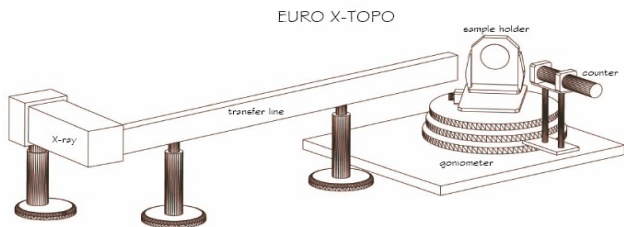
The EURO-TOPO X system includes :

- the X-ray generator and the associated tube
- the X-ray detection system
- the X-ray transfer system
- the main goniometer
- the goniometric sample holder
- PC based imaging software



Radiation counter

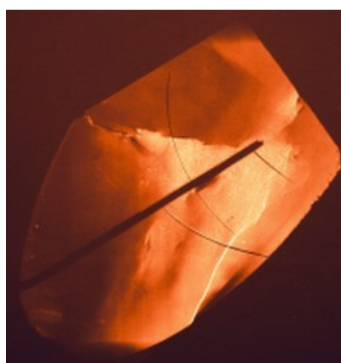
Goniometer



EURO X-TOPO



CdZnTe wafer (111) and its X-ray tomography image



X-ray tomography images of CdZnTe wafers (111)

