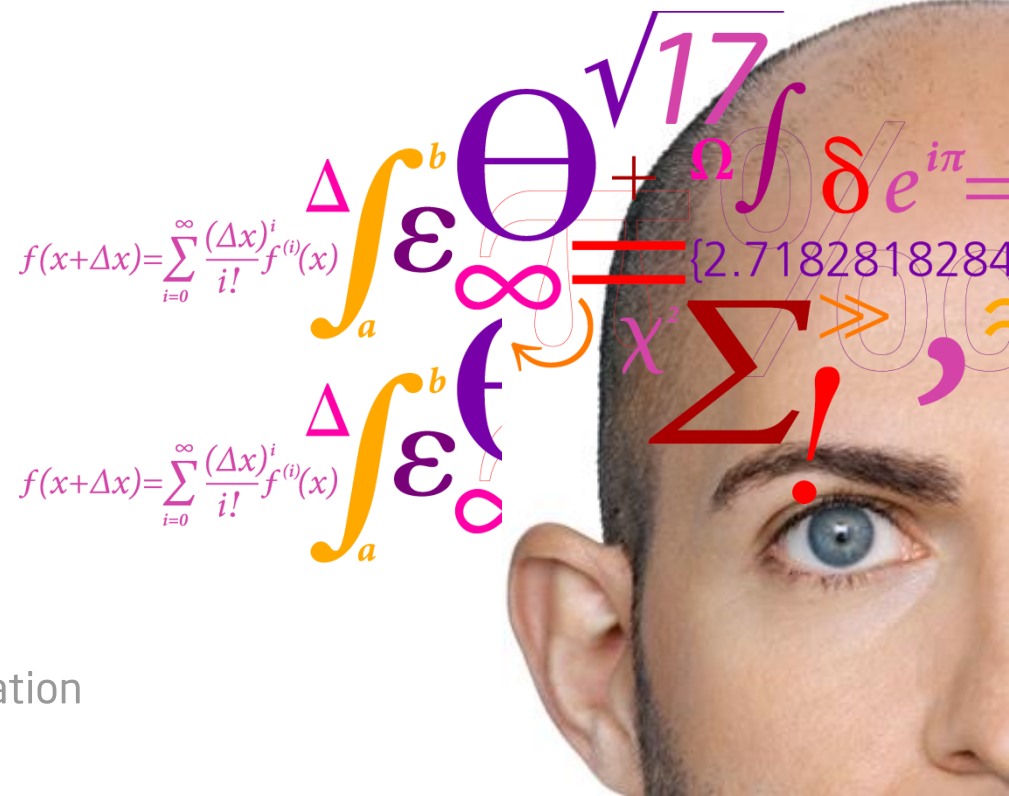


Lithography Tool Package

Inspection

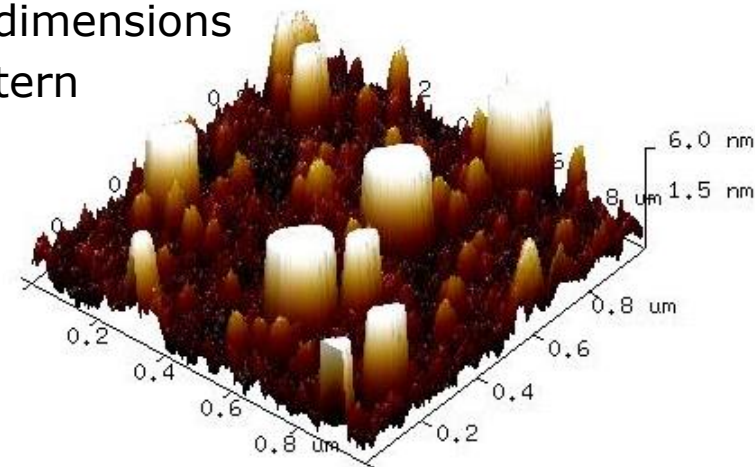
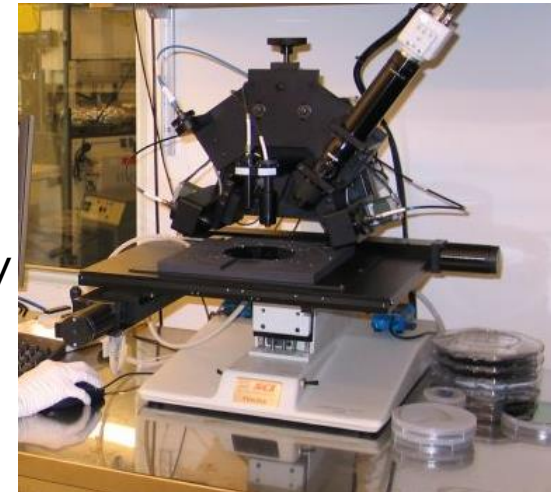


Inspection: characterization methods

- Ellipsometry
 - Measures film thickness and complex index using spectral reflectance and/or polarization
 - Complicated theory and modelling
 - For characterizing coating thickness and uniformity

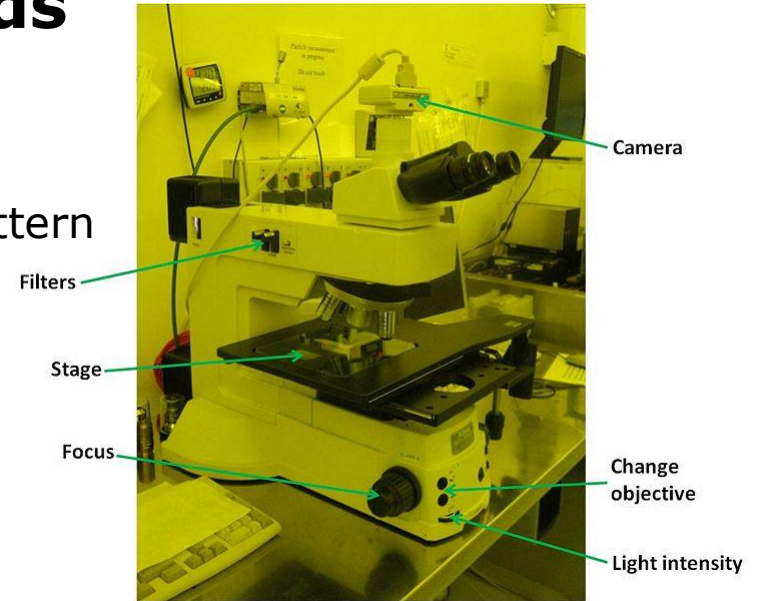
- Profilometry
 - Stylus (mechanical) or Optical (confocal microscope)
 - Measuring film thickness and/or pattern dimensions
 - For checking and documenting resist pattern

- Atomic Force Microscopy
 - Measuring pattern dimensions
 - Measuring surface roughness
 - For documenting resist pattern



Inspection: imaging methods

- Optical microscopy
 - Measuring pattern dimensions
 - For checking and documenting resist pattern



- Scanning Electron Microscopy
 - Measuring pattern dimensions
 - Imaging resist profiles
 - For checking and documenting resist pattern

