

Principles of Electron Microscopy (EM)

- Resolution strongly dependent of wavelength:
 - electron microscope: about 0.2 nm
 - optical microscope: about 500 nm
- Image formed due to different lateral absorption of the beam
 - heavy atoms darkest
 - light atoms high transmissions
- Electron microscopes often equipped with instrumentation for elemental analysis
 - EDAX (Energy Dispersive Analysis of X-rays)
- Two techniques:
 - Transmission Electron Microscopy (TEM)
 - Scanning Electron Microscopy (SEM)

Electron Microscopy Principles And Fundamentals

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Electron Microscopy Principles And Fundamentals Introduction

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