Transmission electron microscopy (TEM)

15

1

Atomic level (X-ray diffraction XRD, transmission electron microscope TEM, atomic force microscope AFM) Microstructure (scanning electron microscope SEM, X-ray spectroscopy) Macrostructure (classical metallography – "materialography", non-destructive methods)

















Electromagnetic lenses • Lorentz-law: $\overline{F} = -q \cdot (\overline{E} + \overline{v} \times \overline{B})$ $\widehat{F} = -q \cdot (\overline{E} + \overline{v} \times \overline{B})$ $\widehat{F} = -q \cdot (\overline{E} + \overline{v} \times \overline{B})$ $\widehat{F} = -q \cdot (\overline{E} + \overline{v} \times \overline{B})$

















































































