AMMR-20 MATERIALS CHARACTERIZATION-II

1. Thermal analysis tools,
2. Thermometry and dilatomentrt, calorimetry,
3. Differential scanning calorimetry (DSC), DTA,
4. Temperature modulates alorimetry,
5. Thermomechanical analysis, DMA and DETA, Therrnogravimetry,
6. X-ray fluorescence, photoluminescence, UV photoelectron spectroscopy,
7. Fourier transform JR spectroscopy, Laser Raman spectroscopy, photoelectron spectroscopy,
8. Auger electron spectroscopy, secondary ion mass spectroscopy,
9. Electron energy loss spectioscopy, solid state NMR, scanning tunneling microscopy, atomic force microscopy,
10. Rutherford bac1 scattering spectroscopy,
11. Particles induced x-ray emission, neutron activation analysis,
12. Mossbauer spectroscopy, positron annihilation spectroscopy.

Reference Books:

1. "An Introduction to Material Characterization" by Khangaonkar P R
2. "Characterization of Materials" by Mitra P K