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## Activator Nuclearphysicsbyroyandnigampdf Iso Utorrent 32

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### EXPERIMENTAL PHYSICS I

**Sensors** : Characteristics, sensitivity, reproducibility ; Sensors for displacement, velocity, acceleration, strain, temperature, pressure, magnetic field. 5Hrs

**Measuring physical properties:**  
Mechanical Properties: Elastic modulus: Static and dynamic methods Viscosity: Flow and damping methods. Surface Tension:

**Thermal Properties:** Specific heat: Adiabatic and relaxation calorimetry Thermal expansion: Interference, capacitance and LVDT methods. Thermal conductivity of good and poor conductors. Thermal diffusivity using periodic heating. Phase transitions using differential scanning calorimeter. 10hrs

**Electrical Properties:**  
Resistance: Two probe and four probe methods. DC and AC methods. High resistance by leakage. Inductance: Self and mutual.  
Capacitance: Bridge technique  
Magnetic field: Search coil, Magneto resistance and Hall probe methods  
Magnetic susceptibility: AC susceptibility and Vibration sample magnetometer  
Ferromagnetic material: B-H curve 10hrs

**Vacuum techniques:**  
Pumps for producing high vacuum ; pumping speed, conductance. Gauges for measuring low pressures. Leaks and leak detection. 5hrs

**Thin film coating:**  
Evaporative coating, DC and plasma sputtering, Laser ablation Techniques for measuring thickness of film 10hrs

**Low temperature techniques:**  
Properties of cryogenic fluids; bath cryostat and continuous flow Cryostat; Cryogenic refrigerators; temperature measurement; a cryostat for resistivity measurement. 10hrs

**High pressure techniques:** High pressure cell for resistivity measurement. Measurement of high pressures Diamond anvil cell for very high pressures 10hrs

**Reference Books:**  
1. Experimental Physics: R.A. Dunlap, Oxford University Press 1988  
2. The Art of Experimental Physics, Dietz Preston, Eric S. Dietz, Barnes and Noble, 2001  
3. An Introduction to Experimental Physics, Colin Cooke, London; UCL Press (Pennsylvania)  
4. Cryogenics and Property Measurements at Low Temperatures, R.Srinivasan, A.K. Ray Chaudhari and S. Kasturirangan, Allied Publishers.  
5. Manual on the Experiments with IAS kit by R.Srinivasan

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