

Reference Book for CSIR-UGC-NET/GATE Chemistry

**PHYSICAL CHEMISTRY:**

**Chemical Kinetics & Catalysis:** Chemical Kinetics –Atkins Chemical Kinetics – Keith J Laidler A text book of Physical Chemistry (Vol-V) – K. L. Kapoor **Electrochemistry:** An Introduction to Electrochemistry – Samuel Glasstone A book of Physical Chemistry (Vol-III) – K L Kapoor **Thermodynamics:** A text book of Physical Chemistry (Vol-II) – K. L. Kapoor Principles of Physical Chemistry – Puri, Sharma &Pathania **Molecular Spectroscopy** Fundamentals of Molecular Spectroscopy – Colin N. Banwell (a must read book) Physical Methods – Russel S. Drago (a must read book) **Quantum Chemistry** Quantum Chemistry through Problems and Solutions – R.K. Prasad Quantum Chemistry – Donald A. McQuarrie **Collides & Surfaces** Surface Chemistry – A Goel Introduction to Surface Chemistry & Catalysis – Gabor A. Somorjai **Group Theory** Chemical Applications of Group Theory – F. Albert Cotton (a must read book)

**ORGANIC CHEMISTRY:**

**Principles of Stereochemistry** Stereochemistry Conformation and Mechanism -P.S. Kalsi( for basics) Stereochemistry of Organic Compounds - E. L. Eliel **Organic Reaction Mechanism** A Guidebook to Mechanism in Organic Chemistry – Peter Sykes Organic Chemistry -Clayden, Greeves, Warren and Wothers **Advanced Organic Chemistry** Part-A: Structure and Mechanism – Francis A. Carey, Richard J. Sundberg Part-B : Reactions and Synthesis - Francis A. Carey, Richard J. Sundberg **Reagents in Organic Synthesis** Modern Methods of Organic Synthesis – William Carruthers, Iain Coldham **Photochemical Reactions** Organic Photochemistry – James H. Coxon, B. Halton **Organic Synthesis** Organic Synthesis the disconnection approach – Stuart Warren **Spectroscopy** Spectrometric Identification of Org. Compounds – R. M. Silverstein, F. X. Webster Organic Spectroscopy – William Kemp **Pericyclic Reactions** Pericyclic Reactions – R T Morrison, R N Boyd

**INORGANIC CHEMISTRY:**

**Chemical Bonding and Shapes of compounds** Inorganic Chemistry - J. E. Huheey Inorganic Chemistry - Meissler&Tarr **Main Group Elements (s and p blocks)** Concise Inorganic Chemistry - J. D. Lee Principles of inorganic chemistry-Puri Sharma Kalia **Transition Metal & Coordination Compounds (d block)** Concise Inorganic Chemistry - J. D. Lee Principles of inorganic chemistry-Puri Sharma Kalia Mechanism of Inorganic Reactions – Fred Basolo, Ralph G. Pearson **Organometallic Compounds** Concept and Models of Inorganic Chemistry – Bodie Douglas, Darl McDaniel, John Alexander Inorganic Chemistry – Catherine E. Housecraft, Alan G. Sharpe **Bioinorganic Chemistry** Inorganic Chemistry – Shriver & Atkins Inorganic Chemistry – James E. Huheey, E.A. Keiter, R. L. Keiter, O. K. Medhi