

Reference Book for CSIR-UGC-NET/GATE Chemistry

PHYSICAL CHEMISTRY:

Thermodynamics

1. Physical Chemistry - **Thomas Engel & Philip Reid**
2. Principles of Physical Chemistry - **Puri, Sharma & Pathania**
3. A text book of Physical Chemistry (Vol-II) - **K. L. Kapoor**

Chemical Kinetics & Catalysis:

1. Chemical Kinetics and Catalysis - **Richard Mishel**
2. Chemical Kinetics - **Keith J Laidler**
3. A text book of Physical Chemistry (Vol-V) - **K. L. Kapoor**

Electrochemistry

1. An Introduction to Electrochemistry - **Samuel Glasstone**
2. Electrochemistry - **Philip H. Rieger**
3. A book of Physical Chemistry (Vol-III) - **K L Kapoor**

Quantum Chemistry

1. Quantum Chemistry through Problems and Solutions - **R.K. Prasad**
2. Quantum Chemistry - **Donald A. McQuarrie**

Molecular Spectroscopy

1. Fundamentals of Molecular Spectroscopy - **Colin N. Banwell**
2. Physical Methods - **Russel S. Drago**

Group Theory

1. Chemical Applications of Group Theory – **F. Albert Cotton**

Collides & Surfaces

1. Surface Chemistry - **A Goel**
2. Introduction to Surface Chemistry & Catalysis - **Gabor A. Somorjai**

ORGANIC CHEMISTRY:

Principles of Stereochemistry

1. Stereochemistry Conformation and Mechanism -**P.S. Kalsi**
2. Stereochemistry of Organic Compounds - **E. L. Eliel**

Organic Reaction Mechanism

1. A Guidebook to Mechanism in Organic Chemistry - **Peter Sykes**
2. Organic Chemistry -**Clayden, Greeves, Warren and Wothers**

Advanced Organic Chemistry

1. Part-A: Structure and Mechanism - **Francis A. Carey, Richard J. Sundberg**
2. Part-B : Reactions and Synthesis - **Francis A. Carey, Richard J. Sundberg**

Reagents in Organic Synthesis

1. Modern Methods of Organic Synthesis - **William Carruthers, Iain Coldham**

Organic Synthesis

1. Organic Synthesis the disconnection approach - **Stuart Warren**

Spectroscopy

1. Spectrometric Identification of Org. Compounds - R. M. Silverstein, F. X. Webster
2. Organic Spectroscopy - William Kemp

Pericyclic Reactions

1. Pericyclic Reactions - R T Morrison, R N Boyd

Photochemical Reactions

1. Organic Photochemistry - James H. Coxon, B. Halton

INORGANIC CHEMISTRY:

Chemical Bonding and Shapes of compounds

1. Inorganic Chemistry - J. E. Huheey
2. Inorganic Chemistry - Meissler & Tarr

Main Group Elements (s and p blocks)

1. Concise Inorganic Chemistry - J. D. Lee

Transition Metal & Coordination Compounds (d block)

1. Concise Inorganic Chemistry - J. D. Lee
2. Inorganic Chemistry - Meissler & Tarr
3. Mechanism of Inorganic Reactions - Fred Basolo, Ralph G. Pearson

Organometallic Compounds

1. Concept and Models of Inorganic Chemistry - Bodie Douglas, Darl McDaniel, John Alexander
2. Inorganic Chemistry - Catherine E. Housecraft, Alan G. Sharpe

Bioinorganic Chemistry

1. Inorganic Chemistry - Shriver & Atkins
2. Inorganic Chemistry - James E. Huheey, E.A. Keiter, R. L. Keiter, O. K. Medhi

Analytical Chemistry

1. Instrumental Method - Skoog, Holler & Crouch