Best Way to Study

- Inorganic Chemistry + Selective topics from Physical Chemistry and Organic Chemistry

Or

- Physical Chemistry + Selective topics from Inorganic Chemistry and Organic Chemistry

Or

- Organic Chemistry + Selective topics from physical Chemistry and Inorganic Chemistry

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CSIR-NET | GATE | JAM | CUET-PG | TIFR | BARC Reference Books

For Beginners

Inorganic Chemistry

- Inorganic Chemistry - Meissler & Tarr

(Or)

Inorganic Chemistry – Catherine E. Housecraft,

Physical Chemistry

- Principles of Physical Chemistry – Puri & Sharma

Organic Chemistry

- Organic Chemistry -Clayden, Greeves & Warren

For Moderate Level Students

Inorganic Chemistry

1. Inorganic Chemistry - Meissler & Tarr
2. Inorganic Chemistry – Catherine E. Housecraft

Physical Chemistry

1. Principles of Physical Chemistry – Puri, Sharma
2. Physical Chemistry – K L Kapoor

Organic Chemistry

1. Organic Chemistry - Clayden, Greeves, Warren
2. Modern Organic Synthesis: An Introduction - Zweifel

For Advanced Level Students

ORGANIC CHEMISTRY

General Organic Chemistry

- Organic Chemistry -Clayden, Greeves, Warren and Wothers

Stereochemistry

- Stereochemistry of Organic Compounds - E. L. Eliel
- Stereochemistry Of Organic Compounds - D. Nasipuri
- Stereochemistry Conformation and Mechanism - P.S. Kalsi

Organic Mechanisms

- 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
- Modern Organic Synthesis: An Introduction- George S. Zweifel , Michael H. Nantz

Retro Synthesis

- Organic Synthesis: Disconnection approach – Stuart Warren
- Modern Organic Synthesis: An Introduction- George S. Zweifel , Michael H. Nantz **(Chapter-1)**

Organic Spectroscopy

- Spectroscopic Methods in Organic Chemistry - Fleming Ian
- Introduction Spectroscopy by pavia, lampman, kriz
- Spectrometric Identification of Organic Compounds – R. M. Silverstein, F. X. Webster
- Organic Spectroscopy – William Kemp

Pericyclic Reactions & Photochemical Reactions

- Essentials of Pericyclic and Photochemical - Biswanath Dinda
- Reactions Pericyclic Reactions - Sunil Kumar, Vinod Kumar, S.P. Singh
- Photochemistry and Pericyclic - Jagdamba Singh, Jaya Singh
- Organic Photochemistry – James H. Coxon, B. Halton

INORGANIC CHEMISTRY

Main Group Elements (s and p blocks) & Periodicity

- Concise Inorganic Chemistry - J. D. Lee
- Principles of Inorganic Chemistry - B.R. Puri, L.R. Sharma

Chemical Bonding and Shapes of compounds

- Inorganic Chemistry – Catherine E. Housecraft
- Inorganic Chemistry - Meissler & Tarr

Transition Metal & Coordination Compounds (d block)

- Inorganic Chemistry -Meissler & Tarr
- Concise Inorganic Chemistry - J. D. Lee
- Inorganic Chemistry - James E. House

Organometallic Compounds

- Concept and Models of Inorganic Chemistry – Bodie Douglas, Darl Mc Daniel, John Alexander
- Inorganic Chemistry – Catherine E. Housecraft, Alan G. Sharpe
- Inorganic Chemistry -Meissler & Tarr

Bio-inorganic Chemistry

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

Analytical Chemistry

- Instrumental Method – Skoog, Holler & Crouch
- Inorganic Chemistry – Alan G. Sharpe

Spectroscopic Techniques in Inorganic Chemistry

- Physical Methods in Inorganic Chemistry PB. by Drago
- Principles of Inorganic Chemistry - Brian W. Pfennig

PHYSICAL CHEMISTRY

Group Theory

- Chemical Applications of Group Theory – F. Albert Cotton
- Molecular Symmetry and Group Theory - Alan Vincent

Thermodynamics & Statistical Thermodynamics

- Physical Chemistry - Peter Atkins, Julio de Paula
- Advanced Physical Chemistry - Gurdeep R
- Principles of Physical Chemistry – Puri, Sharma & Pathania
- Physical Chemistry – Thomas Engel & Philip Reid

Chemical Kinetics

- Chemical Kinetics and Catalysis – Richard Mishel
- Chemical Kinetics – Keith J Laidler
- A text book of Physical Chemistry – K. L. Kapoor

Electrochemistry

- An Introduction to Electrochemistry – Samuel Glasstone

- Electrochemistry – Philip H. Rieger

Quantum Chemistry

- Quantum Chemistry through Problems and Solutions – R.K. Prasad
- Quantum Chemistry – Donald A. McQuarrie
- Physical Chemistry - Peter Atkins, Julio de Paula
- Physical Chemistry - Ira N. Levine

Molecular Spectroscopy

- Fundamentals of Molecular Spectroscopy – Colin N. Banwell
- Physical Methods – Russel S. Drago
- Physical Chemistry - Peter Atkins, Julio de Paula

Collides & Surfaces

- Surface Chemistry – A Goel
- Introduction to Surface Chemistry & Catalysis – Gabor A. Somorjai
- Physical Chemistry - Ira N. Levine