

CSIR NET CHEMICAL SCIENCE – REFERENCE BOOKS

PHYSICAL CHEMISTRY

Thermodynamics:

- Physical Chemistry – Engel & Reid
- Principles of Physical Chemistry – Puri, Sharma & Pathania
- A Textbook of Physical Chemistry (Vol-II) – K. L. Kapoor

Chemical Kinetics & Catalysis:

- Chemical Kinetics and Catalysis – Richard Mishel
- Chemical Kinetics – Keith J. Laidler
- A Textbook of Physical Chemistry (Vol-V) – K. L. Kapoor

Electrochemistry:

- Introduction to Electrochemistry – Samuel Glasstone
- Electrochemistry – Philip H. Rieger
- A Textbook of Physical Chemistry (Vol-III) – K. L. Kapoor

Quantum Chemistry:

- Quantum Chemistry through Problems & Solutions – R. K. Prasad
- Quantum Chemistry – Donald A. McQuarrie

Molecular Spectroscopy:

- Fundamentals of Molecular Spectroscopy – Banwell
- Physical Methods – Drago

Group Theory:

- Chemical Applications of Group Theory – F. A. Cotton

Colloids & Surfaces:

- Surface Chemistry – A. Goel
- Introduction to Surface Chemistry & Catalysis – Somorjai

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ORGANIC CHEMISTRY

Principles of Stereochemistry:

- Stereochemistry – P. S. Kalsi
- Stereochemistry of Organic Compounds – E. L. Eliel

Organic Reaction Mechanism:

- A Guidebook to Mechanism – Peter Sykes
- Organic Chemistry – Clayden, Greeves, Warren & Wothers
- Organic Chemistry – David Klein

Advanced Organic Chemistry:

- Carey & Sundberg – Part A & B

Reagents in Organic Synthesis:

- Modern Methods in organic synthesis – William Carruthers & Coldham
- Modern Methods in organic synthesis – George Zweifel and Michael Nantz

Organic Synthesis:

- Disconnection Approach – Stuart Warren

Spectroscopy:

- Organic Spectroscopy – Pavia
- Spectrometric Identification – Silverstein & Webster
- Organic Spectroscopy – William Kemp

Pericyclic & Photochemical Reactions:

- Pericyclic Reactions – Biswanath Dinda
- Pericyclic Reactions – Sunil Kumar
- Pericyclic Reactions – Ian Fleming
- Organic Chemistry by Clayden
- Organic Photochemistry – Coxon & Halton

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INORGANIC CHEMISTRY

Chemical Bonding & Structure:

- Inorganic Chemistry – Huheey
- Inorganic Chemistry – Meissler & Tarr

- Inorganic Chemistry – Housecraft

Main Group Elements:

- Concise Inorganic Chemistry – J. D. Lee

- Inorganic Chemistry – Housecraft

Coordination Chemistry:

- Inorganic Chemistry – Housecraft
- Concise Inorganic Chemistry – J. D. Lee
- Inorganic Chemistry – Meissler & Tarr
- Mechanism of Inorganic Reactions – Basolo & Pearson

Organometallic Chemistry:

- Inorganic Chemistry – Meissler & Tarr
- Organometallic Chemistry – Meissler & Tarr
- Concepts & Models – Douglas, McDaniel, Alexander
- Inorganic Chemistry – Housecroft & Sharpe

Bioinorganic Chemistry:

- Inorganic Chemistry – Shriver & Atkins
- Inorganic Chemistry – Huheey, Keiter, Medhi

- Inorganic Chemistry – Housecraft

Analytical Chemistry:

- Analytical Chemistry by G D Christian
- Instrumental Methods of Analysis – Skoog, Holler & Crouch

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