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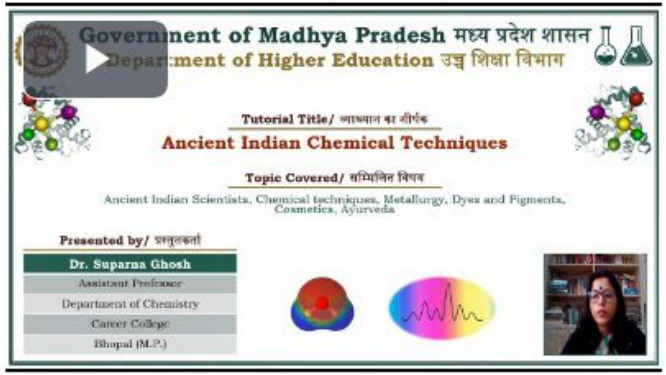
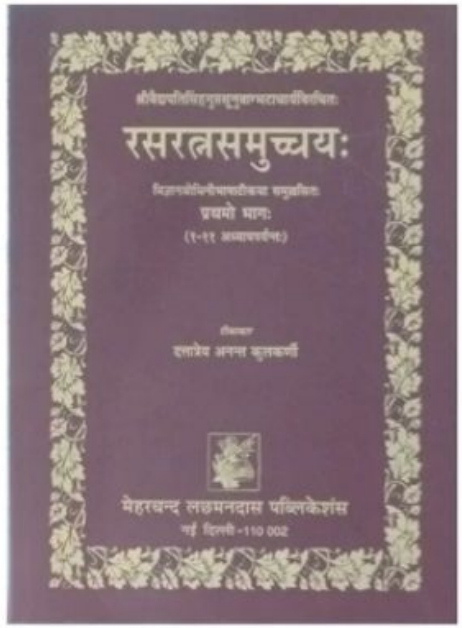
Paper I - Fundamentals of Chemistry (Major)

Video Module 1.1



Introduction / परिचय

- Plays a vital role in the development of science
- knowns as Rasayan Shastra or Rasatantra or Rasakriya in ancient India
- Chemical laboratories- Rasakriya-Shala
- more than 32 instruments were used that time



Dr. Suparna Ghosh

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Biochemical Techniques Paper 1

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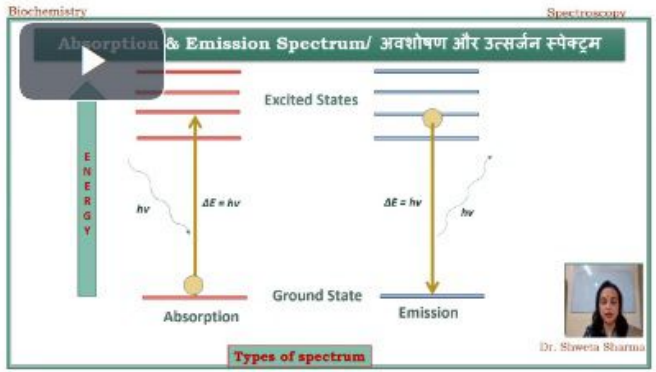
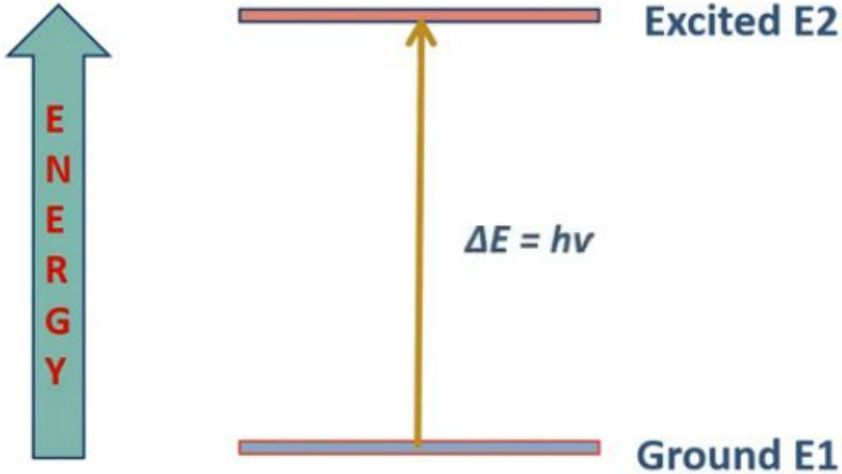
Video link 4.1



Principle of Spectroscopy/ स्पेक्ट्रोस्कोपी का सिद्धांत

Nucleus, electron, atom, and molecules all have discrete energy levels. When there is absorption of a light with energy ΔE equal to the energy gap between the two levels, the energy gets deposited on the electron and it goes to excited state E2, from the ground state E1 with the frequency of the absorbed radiation given by Planck's principle ΔE= E2-E1=hν



Excitation of atom

Dr. Shweta Sharma

08:31
-8:15

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Paper I - Fundamentals of Chemistry (Major)

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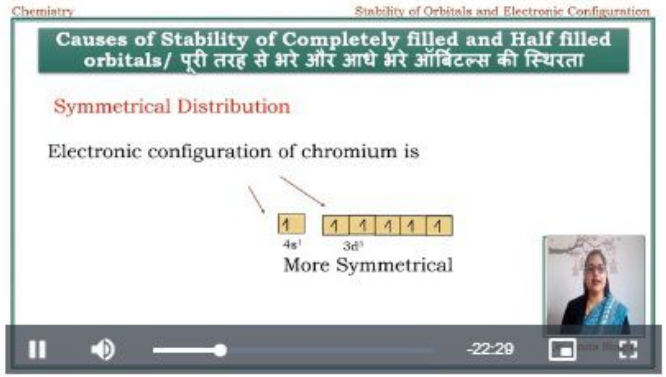
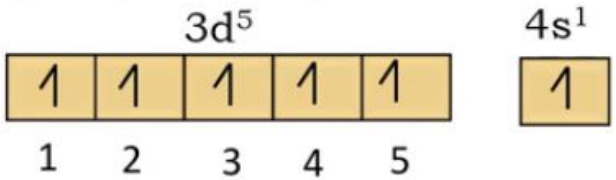
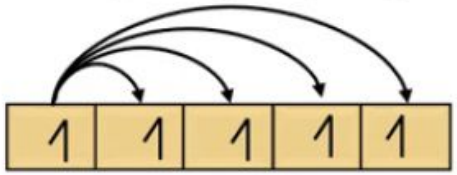
Video Module 1.5



Exchange Energy

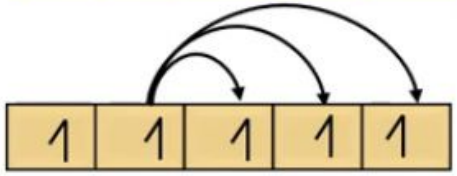


Number of exchanges in $3d^5\ 4s^1$ configuration of chromium

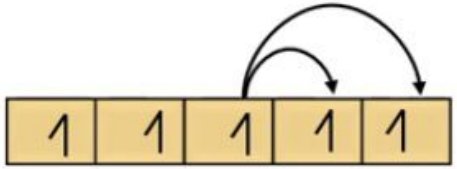


4 exchanges for electron 1

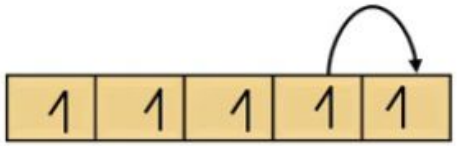
Number of Exchanges = 4 + 3 + 2 +



3 exchanges for electron 2



2 exchanges for electron 3



1 exchange for electron 4

Dr. Anita Singh

11:0 11:50
-17:46

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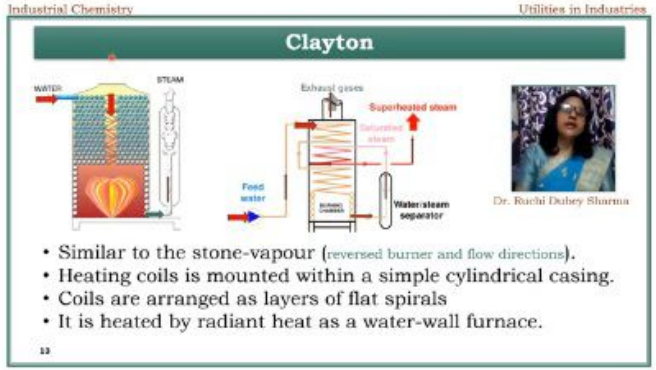
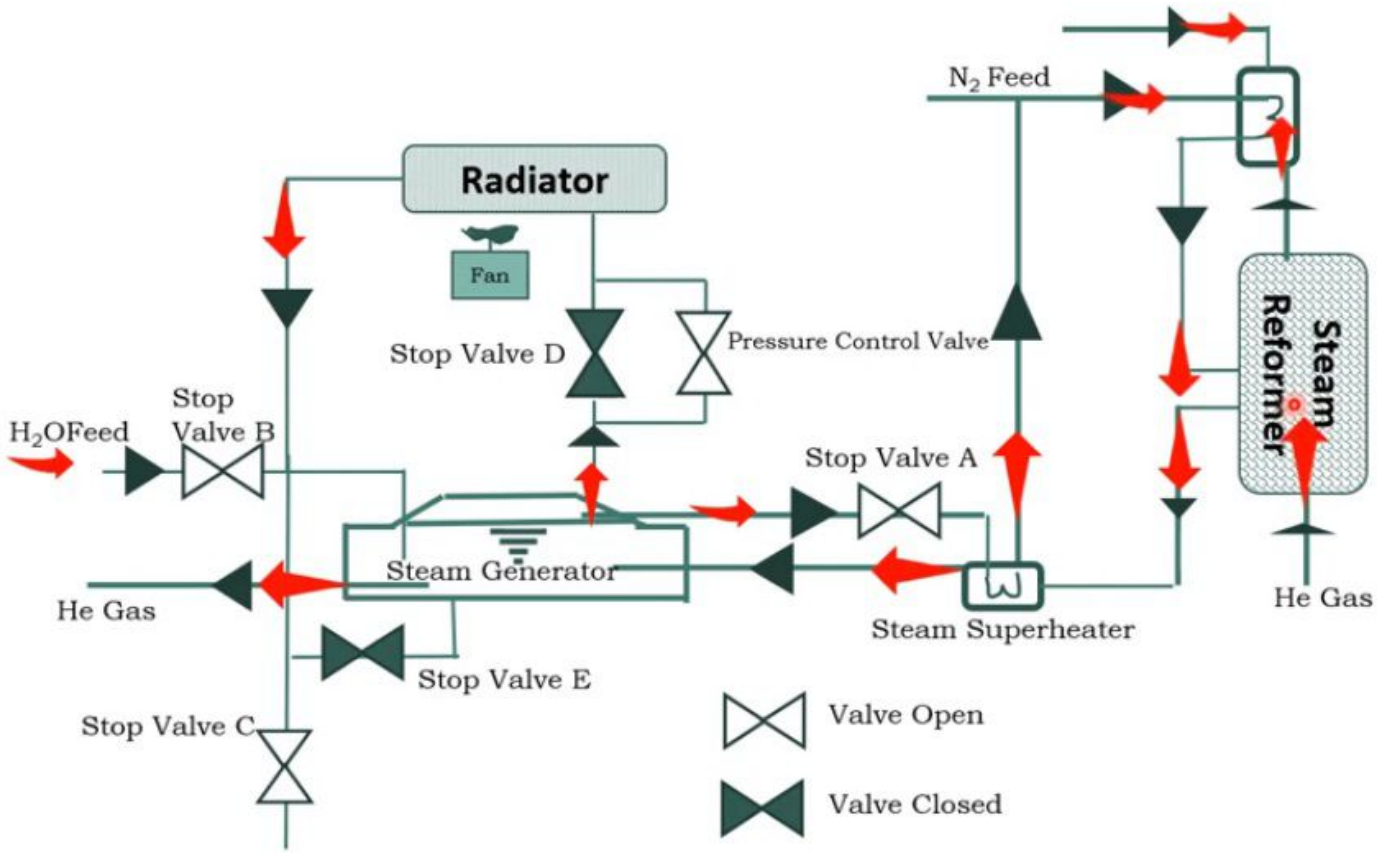
Unit operations and Utilities in chemical industries

Video-5.4



Stone Vapour Generator



Dr. Ruchi Dubey Sharma