

- Explain the third law of thermodynamics.
The third law states that 'As a system approaches absolute zero, the entropy of the system approaches a minimum value'.
- What is entropy?
Entropy is a measure of disorderliness. It explains the system's closeness to equilibrium.
- What is Gibbs free energy?
It is the available energy or the greatest amount of mechanical work done by a system at constant temperature and pressure.
- At what temperature does water have maximum density?
At 4 deg C the density of water is 1000 kg/cu.m.
- What is an isochoric process?
It is a thermodynamic process at constant volume. Also called isovolumetric process
- What is a CSTR and what are its basic assumptions?
Continuous Stirred tank Reactor. Assumptions are steady state, constant density, constant temperature, one irreversible first-order reaction.
- List the advantages and disadvantages of a PFR.
Advantages: Continuous operation, high conversion rate, less cost for operation.
Disadvantages: temperature gradients, high maintenance cost.
- Explain the functioning of a three-way catalytic converter.
Carbon monoxide oxidation, Nitrogen oxide reduction, uncombusted hydrocarbon oxidation.
- Explain global warming from a common man's and an engineer's perspective.
In a common man's perspective, the increase in world temperatures is global warming. In an engineer's perspective, it is the average temperature increase in the surface temperature of the earth, mainly due to increased concentration of greenhouse gases. The greenhouse gases capture the heat radiated by the earth, inside the atmosphere, enabling the increase in temperature.
- What is carbon sequestration?
A technique for capturing carbon dioxide for a long term in order to reduce its effects on global warming.
- What are the greenhouse gases in earth's atmosphere?
Water vapor, carbon dioxide, ozone, methane, nitrous oxide and CFC.
- Define octane number.
It is the resistance to detonation of a fuel in a spark ignition engine compared to the iso-octane-n-heptane mixture.
- Explain the working of a spray condenser
A spray condenser is used for the condensation of humid water vapor by direct contact with water. The inlet water is at a temperature less than the dew point of air in the chamber.
- How does a cyclone separator work?
It works as gas-solid separation equipment using vortex formation.
- Define viscosity.
Viscosity is a measure of a fluid's resistance to shear stress.
- What is critical radius of insulation?
The critical radius of insulation is the thickness of an insulation that does not affect the convection resistance. It is the ratio of the thermal conductivity of the insulator to the convection heat transfer coefficient.
- What is a black body?
An ideal object that absorbs all electromagnetic radiations.

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1 :: Is there any way to remove residual product left in pipes after a batch operation?

OEG Company in Osaka, Japan commercialized a device called Pushkun that runs through pipes and "pushes" out left over product. The system is particularly valuable in batch operations where product recovery is chief concern. The manufacturer claims that at one

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**Olayinka I. Ogunsola, Olubunmi M.
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1. Understanding the eBook Chemical Engineering Questions And Answers Pdf
 - The Rise of Digital Reading Chemical Engineering Questions And Answers Pdf
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemical Engineering Questions And Answers Pdf
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chemical Engineering Questions And Answers Pdf
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemical Engineering Questions And Answers Pdf
 - Personalized Recommendations
 - Chemical Engineering Questions And Answers Pdf User Reviews and Ratings

- Chemical Engineering Questions And Answers Pdf and Bestseller Lists
- 5. Accessing Chemical Engineering Questions And Answers Pdf Free and Paid eBooks
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 - Highlighting and Note-Taking Chemical Engineering Questions And Answers Pdf
 - Interactive Elements Chemical Engineering Questions And Answers Pdf
- 8. Staying Engaged with Chemical Engineering Questions And Answers Pdf
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemical Engineering Questions And Answers Pdf
- 9. Balancing eBooks and Physical Books Chemical Engineering Questions And Answers Pdf
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemical Engineering Questions And Answers Pdf
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chemical Engineering Questions And Answers Pdf
 - Setting Reading Goals Chemical Engineering Questions And Answers Pdf
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chemical Engineering Questions And Answers Pdf
 - Fact-Checking eBook Content of Chemical Engineering Questions And Answers Pdf
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
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