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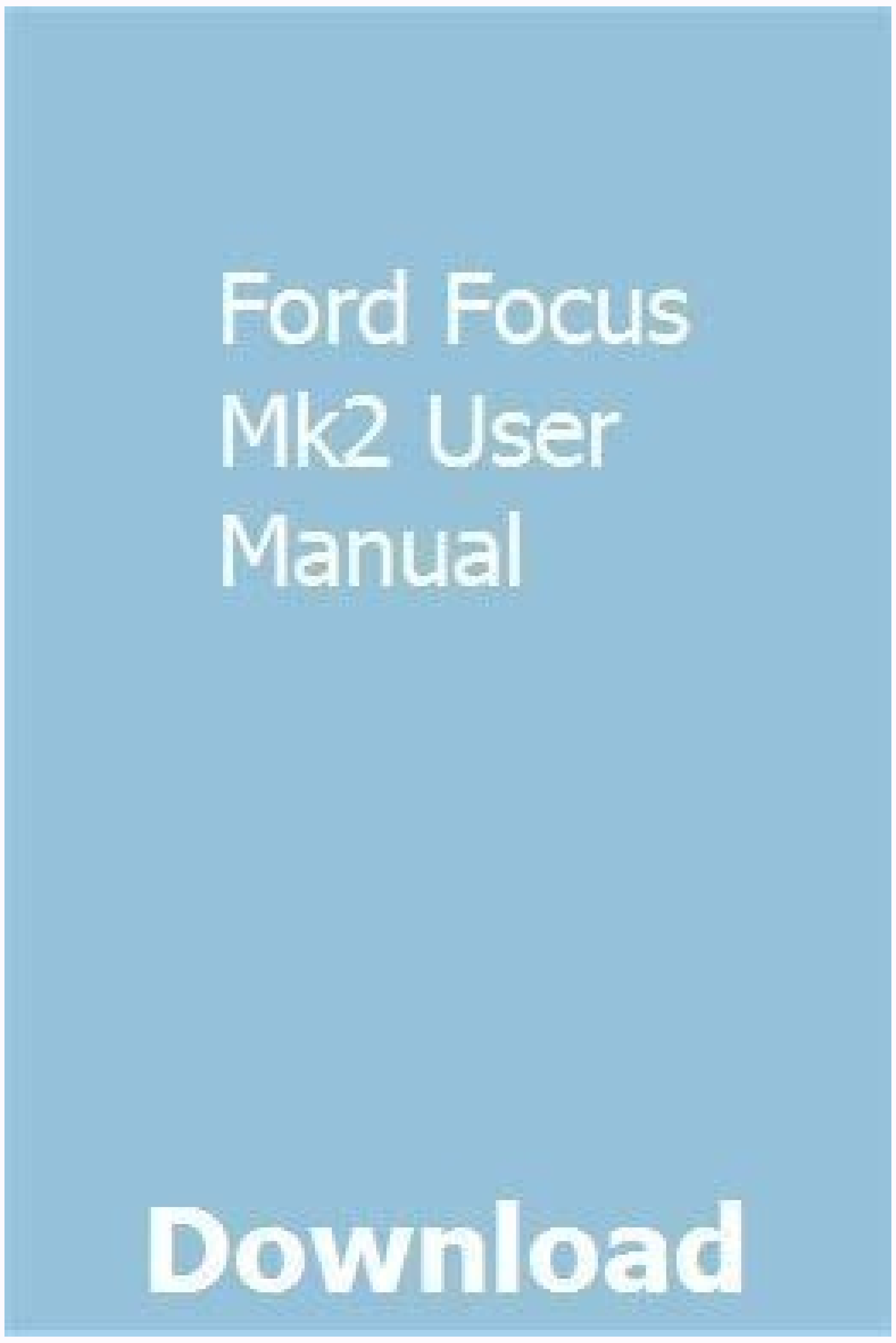

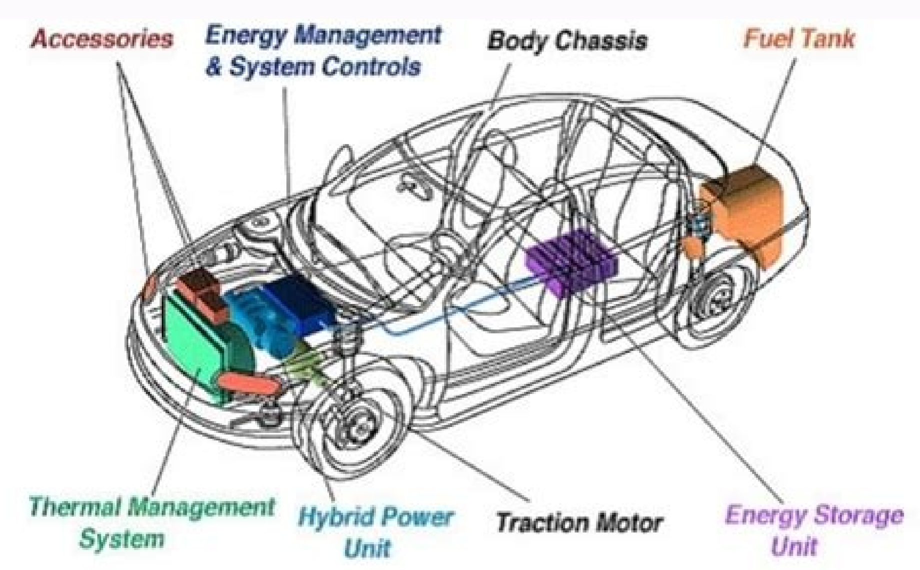

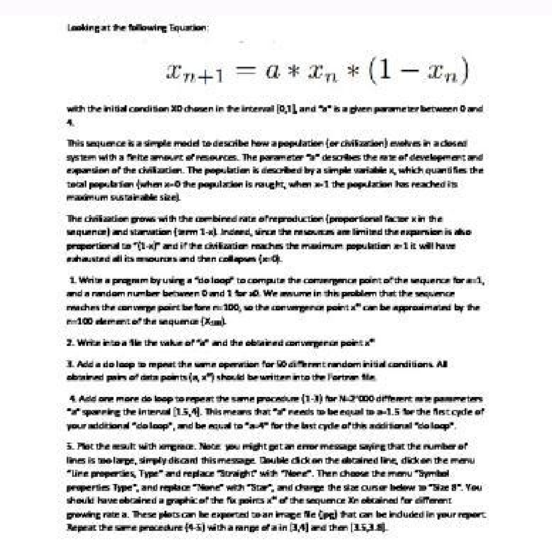

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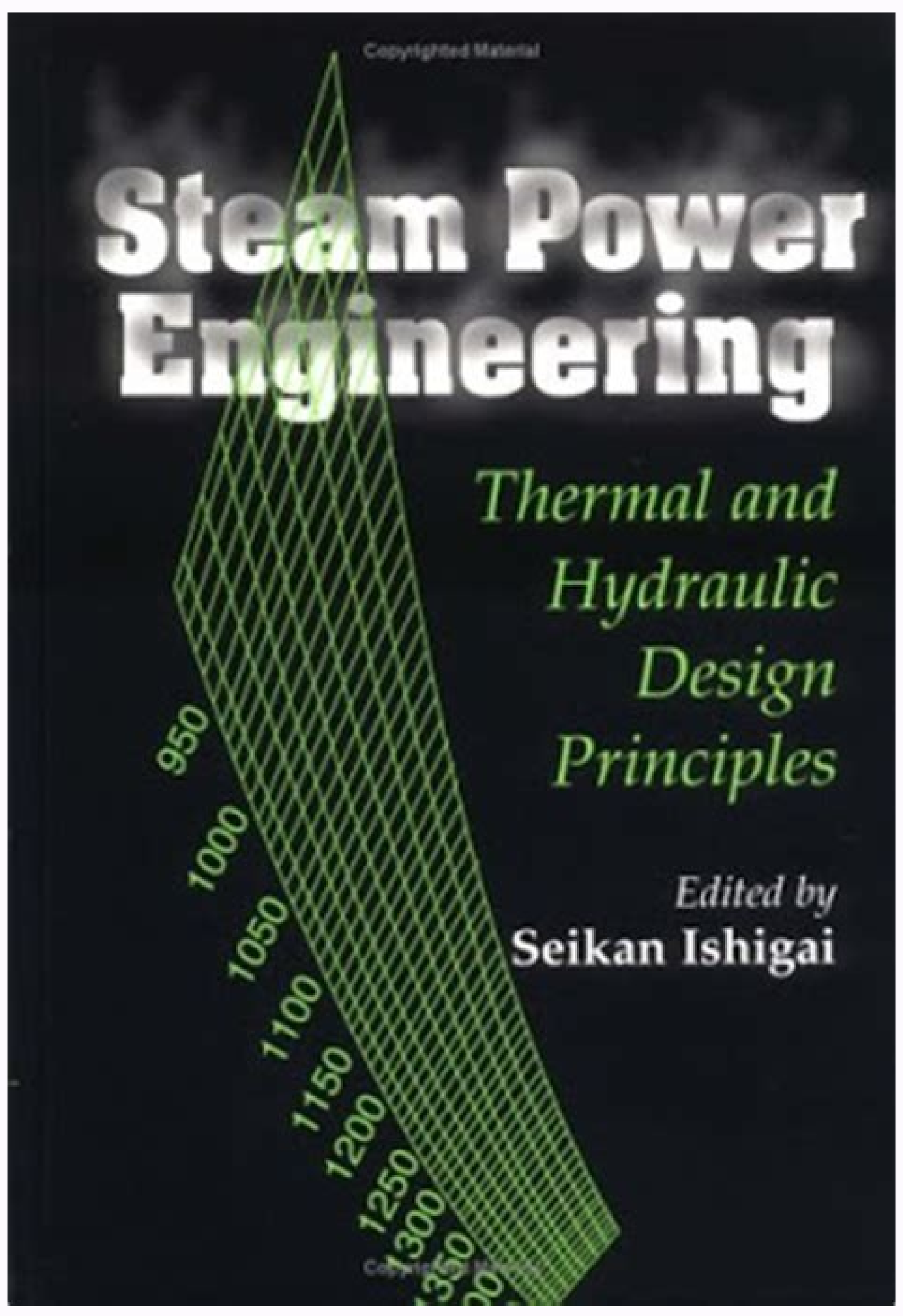

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Learning objectives: â€¢ Plastics are used today in appliances; they are also used as compounds (FRP) in aerospace and automotive industries. â€¢ Fuels as a source of energy are a basic need of any industry, particular industries such as thermal power stations, the steel industry, the fertilizer industry, etc., and therefore, are introduced. â€¢ The base of the construction of galvanic cells is introduced. Furthermore, if corrosion should be controlled, one must understand the corrosion mechanism explained by electrochemical theory. â€¢ With increased demand, a wide variety of materials emerge; some of them have excellent engineering properties and some of these materials are introduced. â€¢ Water is a basic material in almost all industries, more so, where steam is generated and alsoIt is supplied for drink purposes. Ã ¢ Ã ¢ Ã ¢ â € ¢ Materials used in the main industries such as the steel industry, the metallium industries and the construction industries and the manufacturing industries of the electrical equipment. In addition, the lubrication is introduced. Engineering Engineering 1st Notes PDF Download Engineering Chemistry 1st-Semester Notes PDFDescargar Ingeniería Chemistry PDF Free Download Engineering Chemistry 1st Year Notes PPTDownload Quemica Engineering Question Paper PDFDecargar Suggested Books for Chumica Engineering - QuiMica DHANPAT RAI Publication Co.ingerie QuiMica by Shikha Agarwal; Cambridge University Press, Edition 2015. Wiley India Qualicia India Pvt. Ltd., Vairam and others, 2014 edition (second). Engineering QuiMica by Prasanth Rath, Cengan Learning, Edition of 2015. A Textbook of Engineering Chemistry by S. S. DARA; S. Chand & Co Ltd., Last Quemician Edition by H.D. Gesser, Springer Publishers Textbook of NanosCience and Nanotechnology by B.S. Murthy, P. Shankar, And Others, University Press, Iim B. Siva Shankar, â € œEngineering Chemistryâ €, Tata Mc Graw Hill Publishing Limited, 3A Edition, 2015. SS Dara, Mukkanti, â € œText of chemistry Engineeringâ €, S. Chand & Co, New Delhi, 12th edition, 2006. CV Agarwal, CP Murthy, A. Naidu, â € œChemistry of Engineering Materialsâ €, Wiley India, 5th Edition, 2013. RP Mani, KN Mishra, â € œChemistry of Engineering Materialsâ €, Cengan Learning, 3rd Edition, 2015. Plastic manufacturing commitments (EC, ME, PCE, PE, MET.E, Mining, Automobile, Aeronautics, Chemistry, Bio.Tech.) Unit I: plastic and plasticspolymerization: - Introduction- Polymerization mechanism â € "Polymers are re-ergular â €" Method of polymerization (emulsion and suspension) Buna S, Buna N, Thiokol and polyurethanes â € " Applications of the elastomers. Materials & Plastics Reinforced with Fibre " Biodegradable Polymers" Conductive Polymers.UNIT II: FUEL TECHNOLOGYFuels" Introduction to " Heat Value" HCV and LCV Â" DulongÃ¢ formula Â"Pump heat meterÂ" Numerical problems Â"CarbonÂ" Approximate and definitive analysis Â" Meaning of analysis Â" Liquid fuelsÂ" Petroleum â Refining Â" Cra Cheating Â" Synthetic petrol Â"Petrol knockingÂ" Â" Diesel knockingÂ" Classifications of octane and cetane Â" Anti-strike agents Â" Energy Alcohol Â" Biodiesel Â" Gaseous fuels Â" Natural gas, LPG and CNG Â" Fuels Â" Air cycle for the combustion of a fuel Â" Fuel gas analysis Â" Orsat apparatus Â" Numerical problems of fuel. Explosives:- Rocket fuelsUNIT III: ELECTROCHEMICAL CELLS AND CORROSIÃNGalvanic cells Â"Reversible and irreversible cellsÂ" Â"Potential of a single electrodeÂ" Â"Electrochemical series and uses of this series- Standard electrodes (hydrogen and Calomel electrodes) Concentration cells Â"Batteries: D Ni-Cd cells Ni-Cd cells Ni-Metal cells Hydride cells Li cells Air cells Corrosion:- Defined Â" Theories of Corrosion (chemical and electrochemical) Â" Formation of galvanic cells by different metals, by concentration cells, by differential aeration and float corrosion â¦ Corros Pitting â¦ Galvanic series â¦ Factors that influence the corrosion rate â¦ Protection against corrosion â¦ Design and selection of materials â¦ Catholic protection â¦ Protective coatings: â¦ Surface preparation Metallic coatings (cathode and anode) â¦ Methods of application on metals (Galvanization, Tin, Electroplating, Electroless plating).UNIT IV: CHIEMISTRY OF ADVANCED MATERIALSNanomater Materials:- Introduction Â"Sol-gel method & preparation chemical reduction method Â"Characterization by BET method and TEM methodsÂ" Â"Carbon nanotubes and fullerenes: Types, preparation properties and applications liquids:- liquids:-â€"TIPOS â€" Superconductor applications: -Type â€"i, type II: characteristics and applications green synthesis: - principles: 3or 4 synthesis methods with examples â€" R4M4 principesunit v: Technology Ward Water : - Reasons for hardness: hardness units: Determination of hardness and alkalinity: water for steam generation - Problems Treatments: hard water softener: lime: refresco process, zeolite process and numerical problems based on these processes and process of ionic exchange: water for beverage purposes: purification: sterilization and disinfection: chlorination, chlorination of breakpoints and other methods â€" reverse osmosis and the electro.unit diálisi function VI: chemical of materials of engineering and lubricants Cemento: "Constituents, manufacturing, hardening and adjustment, deterioration of cement insulators: â€" thermal and electric insulators Fuel cell: â€ "Hydrogen oxygen fuel tanks! Result of methanel oxygen fuel cells: the advantages and limitations of plastic materials and their use in design would be understood. Fuels that are commonly used and discussed their economy, advantages and limitations. The reasons for corrosion and some corrosion control methods would be understood. Students would now be aware of materials such as nanomaterials and fullerenos and their uses. Similarly, liquid crystals and superconductors are understood. The importance of green synthesis is well understood and it also explains how they are different from conventional methods. The impurities present in raw waters,associated with them and how to avoid them are understood. Advantages and limitations of plastic. plastic. and its use in design would be understood. Industrial materials of common use are introduced. Chemical Engineering by Jain and Jain 1st consecutive year Download Jain and Jain Engineering Chemistry Book Pdfð The units of the book are as follows: 1. Atoms and Molecules 2. Valence and Chemical Bonding 3. Nuclear Chemistry 4. Thermodynamics 5. Reaction dynamics / Chemical kinetics 6. Catalyst 7. Mechanism of organic reactions 8. Ionic Equillibrium 9. Electrochemistry 10. Electrochemical cells 11. Phase 12 rule. Colloids 13. Chemistry Metal Transit 14. Metallurgy 15. Adhesives 16. Explosives and Propellants 17. Water treatment 18. Fuels and fuels 19. Silicate Te3chnology 20. Polymers 21. Paintings 22. Solid State Chemistry 23. 24. Instrumental methods of analysis 25. Photochemistry 26. Role of metals in biology 27. Prevention of contamination and minimization of waste B. tecnologia 1st-year Chemistry Important questions2 litres of water obtained from a borewell in Patancheru near Hyderabad gave the following analysis for salts:- $FeSO_4$ = 30.4 mg; $CaSO_4$ = 13.6 mg; $MgCl_2$ = 38 mg; Ca (HCO3) 2 = 32.4 mg; Mg (HCO3) 2 = 14.6mg; total to be incurred in water. What are the Constituents of oil? Describes the Origin of oil. Account for the production of crude gasoline. Fuel gas analysis was found to contain the following percentage by Volume CO_2=13%, O_2 =6%. Find air per kg of carbon if the carbon content is 85%. A producing gas has the following composition by volume. H_2=10.4%, CH_4=35%, CO=25%, CO_2=10.8%, N_2=50.3%. Calculate the amount of air required per m3 of gas. If 20% excess air is supplied, find the percentage of composition of the fuel products. [8+8] How are refractory classified? Give an example for eachA note on the conditions leading to the failure of the refractory material. [8 + 8] 8. Enter a note on lubricants with special reference to their classification, action mode, examples and applications. How are the inconveniences of raw rubber? How are your properties improve? How is the Buna S rubber prepared? Write your uses. What is understood by the water? What is the â € ~ softening of the water through the zeolite process? What is due to the alkalinity of water and How is it estimated, calculating the amounts (in kgs) of lime and soda necessary to soften 50,000 liters of hard water containing: salts: - mgcl2 = 95 ppm; Mg (HCO3) 2 = 146 ppm; Case4 = 136 ppm; CA (HCO3) 2 = 162 PPMSUPOME We used the lime used has a purity of 85% and soda has a purity of 95% and molar masses of Mg (HCO3) 2 and Case4 are 146 and 136, respectively. How is it formed? Discuss the qualities of good carbon.Dow the coal classification and explain each class with examples. With a neat diagram describe the method of Analysis of the ORSAT gas. What is the special precaution that should be taken in the measurement? Define the calorific values of a fuel. Distinguish gross and net calorific power. [8 + 8] 7. What are the refractory? Explain thermal stain, resistance and porosity of refractory. Show the following two theories about the mechanism of lubricants. (A) Lubrication Limit (B) Extreme pressure lubrication. Study (SLM) gives enough information. Share this article with your classmates and friends so that you can also follow latest study materials and notes on engineering issues. Any university student can download given B.Tech Notes and study material or you can buy B.Tech 1st Chemistry Books on Amazon too. For any queries related to Chemical Engineering or for any suggestions please contact us through the Picture below. We will respond as soon as possible.

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