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a book on conceptual chemistry

conceptual chemistry volume i for class xii

this textbook has been designed to meet the needs of b sc fourth semester students of chemistry as per the ugc choice based credit system cbcs with its traditional approach to the subject this textbook lucidly explains principles of chemistry important topics such as transition elements coordination chemistry crystal field theory kinetic theory of gases liquids solids and chemical kinetics are aptly discussed to give an overview of inorganic and physical chemistry laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures

a series of books for classes ix and x according to the cbse syllabus and cce pattern

with an increased focus on fundamentals this new edition of a textbook of organic chemistry continues to present the time tested functional group approach to the subject this examination oriented book breaks the intricacies of organic chemistry into easy to understand steps which gives the student the necessary foundation to build upon learn and understand organic chemistry in a way that is efficient as well as long lasting

for b sc 2nd year students of all indian universities the book has been prepared keeping view the syllabi prepared by different universities on the basis of model ugc curriculum a large number of illustrations pictures and interesting examples have been provided to make the reading interesting and understandable the question that have been provided in the exercise are in tune with the latest pattern of examination

this textbook has been designed to meet the needs of b sc honours second semester students of chemistry as per the ugc choice based credit system cbcs maintaining the traditional approach to the subject this textbook lucidly explains the basics of organic and physical chemistry important topics such as alkanes alkenes alkynes stereochemistry aliphatic hydrocarbons thermochemistry chemical thermodynamics and chemical equilibrium are aptly discussed to give an overview of organic and physical chemistry laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures

isc chemistry book 1

from atoms and fluorescent pigments to sulfa drug synthesis and buckyballs this lush and authoritative chronology presents 250 milestones in the world of chemistry as the central science that bridges biology and physics chemistry plays an important role in countless medical and technological advances covering entertaining stories and unexpected applications chemist and journalist derek b lowe traces the most important and surprising chemical discoveries

comprehensive chemistry according to the new syllabus prescribed by central board of secondary education cbse

this book is the result of teaching a one semester course in applied chemistry chemistry 224 to second year engineering students for over 15 years the contents of the course evolved as the interests and needs of both the students and engineering faculty changed all the students had at least one semester of introductory chemistry and it has been assumed in this text that the students have been exposed to thermodynamics chemical kinetics solution equilibrium and organic chemistry these topics must be discussed either before starting the applied subjects or developed as required if the students are not familiar with these prerequisites engineering students often ask why is another chemistry course required for non chemical engineers there are many answers to this question but foremost is that the professional engineer must know when to consult a chemist and be able to communicate with him when this is not done the consequences can be a disaster due to faulty design poor choice of materials or inadequate safety factors examples of blunders abound and only a few will be described in an attempt to convince the student to take the subject matter seriously

s chand textbook of chemistry sem i h p shimla

this supplementary book and multimedia package for students from senior school and first year b sc is intended to bring out the excitement of chemistry and encourage more students to pursue this subject further it explains the hows and whys of chemistry to whet the appetite of a good student

this book covers nearly all topics in organic chemistry taught upto the b sc level topics like resonance h bond hybridization iupac nomenclature acid base theory of organic compounds stereochemistry structure reactivity relationship and spectroscopy have been introduced early in the book subsequent chapters deal with synthetic polymers aliphatic and aromatic hydrocarbons alcohols and phenols ethers aldehydes carboxylic acids and their derivatives amines carbohydrates organometallics and terpenes these topics have been discussed in depth and in a comprehensive manner a great deal of attention has been focussed on chemical reactions and their mechanisms the scope and limitations of the reactions have been stated certain topics of general interest namely c n g l p g simple drugs dna finger printing pufa trans fatty acids soaps and detergents pesticides industrial alcohols coal tar octane number chromatography and artificial sweeteners have been highlighted at appropriate places also included are approximately 900 in text and end of the chapter problems and a set of multiple choice questions mcq at the end of each chapter a glossary of important terms is also included this book has been designed as a comprehensive textbook for students upto b sc level in addition the book will be immensely useful for those preparing for competitive examinations like i i t aieee medical entrance and others

an advanced level textbook of physical chemistry for the graduate b sc and postgraduate m sc students of indian and foreign universities this book is a part of four volume series entitled a textbook of physical chemistry volume i ii iii iv contents chapter 1 quantum mechanics i postulates of quantum mechanics derivation of schrodinger wave equation max born interpretation of wave functions the heisenberg s uncertainty principle quantum mechanical operators and their commutation relations hermitian operators elementary ideas quantum mechanical operator for linear momentum angular momentum and energy as hermitian operator the average value of the square of hermitian operators commuting operators and uncertainty principle x p e t schrodinger wave equation for a particle in one dimensional box evaluation of average position average momentum and determination of uncertainty in position and momentum and hence heisenberg s uncertainty principle pictorial representation of the wave equation of a particle in one dimensional box and its influence on the kinetic energy of the particle in each successive quantum level lowest energy of the particle chapter 2 thermodynamics i brief resume of first and second law of thermodynamics entropy changes in reversible and irreversible processes variation of entropy with temperature pressure and volume entropy concept as a measure of unavailable energy and criteria for the spontaneity of reaction free energy enthalpy functions and their significance criteria for spontaneity of a process partial molar quantities free energy volume heat concept gibb s duhem equation chapter 3 chemical dynamics i effect of temperature on reaction rates rate law for opposing reactions of 1st order and 2nd order rate law for consecutive parallel reactions of 1st order reactions collision theory of reaction rates and its limitations steric factor activated complex theory ionic reactions single and double sphere models influence of solvent and ionic strength the comparison of collision and activated complex theory chapter 4 electrochemistry i ion ion interactions the debye huckel theory of ion ion interactions potential and excess charge density as a function of distance from the central ion debye huckel reciprocal length ionic cloud and its contribution to the total potential debye huckel limiting law of activity coefficients and its limitations ion size effect on potential ion size parameter and the theoretical mean activity coefficient in the case of ionic clouds with finite sized ions debye huckel onsager treatment for aqueous solutions and its limitations debye huckel onsager theory for non aqueous solutions the solvent effect on the mobility at infinite dilution equivalent conductivity Λ vs concentration $c^{1/2}$ as a function of the solvent effect of ion association upon conductivity debye huckel bjerrum equation chapter 5 quantum mechanics ii schrodinger wave equation for a particle in a three dimensional box the concept of degeneracy among energy levels for a particle in three dimensional box schrodinger wave equation for a linear harmonic oscillator its solution by polynomial method zero point energy of a particle possessing harmonic motion and its consequence schrodinger wave equation for three dimensional rigid rotator energy of rigid rotator space quantization schrodinger wave equation for hydrogen atom separation of variable in polar spherical coordinates and its solution principle azimuthal and magnetic quantum numbers and the magnitude of their values probability distribution function radial distribution function shape of atomic orbitals s p d chapter 6 thermodynamics ii classius clayperon equation law of mass action and its thermodynamic derivation third law of thermodynamics nernst heat theorem determination of absolute entropy unattainability of absolute zero and its limitation phase diagram for two completely miscible components systems eutectic systems calculation of eutectic point systems forming solid compounds ax by with congruent and incongruent melting points phase diagram and thermodynamic treatment of solid solutions chapter 7 chemical dynamics ii chain reactions hydrogen bromine reaction pyrolysis of acetaldehyde decomposition of ethane photochemical reactions hydrogen bromine hydrogen chlorine reactions general treatment of chain reactions ortho para hydrogen conversion and hydrogen bromine reactions apparent activation energy of chain reactions chain length rice herzfeld mechanism of

organic molecules decomposition acetaldehyde branching chain reactions and explosions H_2 O_2 reaction kinetics of one intermediate enzymatic reaction michaelis menton treatment evaluation of michaelis s constant for enzyme substrate binding by lineweaver burk plot and eadie hofstae methods competitive and non competitive inhibition chapter 8 electrochemistry ii ion transport in solutions ionic movement under the influence of an electric field mobility of ions ionic drift velocity and its relation with current density einstein relation between the absolute mobility and diffusion coefficient the stokes einstein relation the nernst einstein equation walden s rule the rate process approach to ionic migration the rate process equation for equivalent conductivity total driving force for ionic transport nernst planck flux equation ionic drift and diffusion potential the onsager phenomenological equations the basic equation for the diffusion planck henderson equation for the diffusion potential

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this book highlights the importance of chemistry in human well being by introducing the readers to the basic usefulness of chemistry in everyday life chemistry has helped in creating valuable products that have transformed the lifestyle of people since we spend lots of money in buying our daily requirements there is a need for us to understand the benefits and hazards of using consumer products which contain chemicals in this context this book will help readers to make reasoned choices and intelligent decisions in buying consumer products which contain chemicals this text is divided into seventeen chapters devoted to the basic necessities of life like food shelter clothing healthcare and energy and consumer products topics on chemistry in environment crime warfare arts conservation communications and transportation are also highlighted in individual chapters all these topics are discussed with regard to the needs of modern society in this third edition the various chapters have been updated with current information keeping the language simple and friendly critical thinking exercises and questions have been included the style of questions included in the book is to meet the requirement of various competitive examinations such as indian civil services and entrance examinations in medicine and engineering

a series of six books for classes ix and x according to the cbse syllabus each class divided into 3 parts part 1 physics part 2 chemistry part 3 biology

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