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KEY=AQUEOUS - ADRIENNE RILEY

Test No. 115: Surface Tension of Aqueous Solutions

This Test Guideline describes methods to determine the surface tension (in N/m) of aqueous solutions. The methods are based on the measurement of the force which it is necessary to exert vertically on a stirrup or ring, in contact with the surface of the liquid, in order to separate it from the surface, or on a plate, with an edge in contact with the surface, in order to draw up the film that has formed. There are four different methods: the plate method, the stirrup method, the ring method and the OECD harmonized ring method. They are described in detail in the ISO Standard 304-1985. The methods described are applicable to aqueous solutions of most substances regardless of their degree of purity. The concentration should be 90% of the saturation solubility, but must be below 1g/l. This shall therefore be carried out under a protective cover to avoid interference at 20°C approximately. The ring is immersed below the surface of the solution. Then the table top, where the measurement vessel is placed, is lowered gradually and evenly at a rate of approximately 0.5 cm/min to detach the ring from the surface until the maximum force is reached. The force is read on the tensiometer. After completing the first measurement, measurements are repeated until a constant surface tension value is reached.

OECD Guidelines for the Testing of Chemicals / Section 1: Physical-Chemical properties Summary of Considerations in the Report from the OECD Expert Group on Physical Chemistry

OECD Publishing

Effect of Aqueous Stannous Fluoride on Enamel Solubility

Aqueous solutions of stannous fluoride were evaluated as agents for reducing lactic acid de-calcification of human dental enamel. Performance was measured by the amount of phosphorus removed from enamel before and after fluoride treatment. Phosphorus was determined automatically on the AutoAnalyzer. SnF₂ solutions of 5.0, 10.0, and 20.0 percent concentration were significantly more effective than 0.4, 0.7, and 1.0 percent solutions. Aqueous preparations of stannous fluoride maintained their protective potency throughout the 12-week experimental period.

EQ3NR, a Computer Program for Geochemical Aqueous Speciation-solubility Calculations

Theoretical Manual, User's Guide and Related Documentation (Version 7.0)

OECD Guidelines for the Testing of Chemicals / Section 1: Physical-Chemical properties Test No. 121: Estimation of the Adsorption Coefficient (K_{oc}) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC)

OECD Publishing This Test Guideline describes an experimental method using HPLC for the estimation of the adsorption coefficient K_{oc} in soil and in sewage sludge. The adsorption coefficient is defined as the ratio between the concentration of the substance in the ...

The Solubility of Some Sparingly Soluble Lead Salts

An Evaluation of the Solubility in Water and Aqueous Electrolyte Solution

Complete Foundation Guide For IIT Jee, Chemistry 8

S. Chand Publishing Contains large number of Solved Examples and Practice Questions. Answers, Hints and Solutions have been provided to boost up the morale and increase the confidence level. Self Assessment Sheets have been given at the end of each chapter to help the students to assess and evaluate their understanding of the concepts.

Advanced Study Guide Chemistry

Step-by-Step International Pte. Ltd. This is an ebook version of the "Advanced Study Guide - Chemistry - Ed 1.0" published by Step-by-Step International Pte Ltd. [For the Higher 2 (H2) syllabus with last exam in 2016.] This ebook gives concise illustrated notes and worked examples. It is organised largely accordingly to the Singapore-Cambridge GCE A-Level Higher 2 (H2) syllabus, with additional topics to cover the equivalent syllabuses of the University of Cambridge International Examination (CIE) A Level (Core & A2), and the International Baccalaureate (IB) Higher Level (Core & AHL). The concise notes cover essential steps to understand the relevant theories. The illustrations and worked examples show essential workings to apply those theories. We believe the notes and illustrations will help readers learn to "learn" and apply the relevant knowledge. The ebook should help readers study and prepare for their exams. Relevant feedbacks from Examiner Reports, reflecting what the examiners expected, are incorporated into the notes and illustrations where possible, or appended as notes (NB) where appropriate. It is also a suitable aid for teaching and revision. Sample pages are available (in .pdf) from our website.

OECD Guidelines for the Testing of Chemicals / OECD Series on Testing and Assessment Guidance Document on Transformation/Dissolution of Metals and Metal Compounds in Aqueous Media

OECD Publishing This Test Guidance is designed to determine the rate and extent to which metals and sparingly soluble metal compounds can produce soluble available ionic and other metal-bearing species in aqueous media.

Polymer Science Study Guide

CRC Press

Guide to Foreign Requirements Reports

Definitions, Uses, and Substitutes for Specified Commodities

Standard Potentials in Aqueous Solution

Routledge The best available collection of thermodynamic data! The first-of-its-kind in over thirty years, this up-to-date book presents the current knowledge on Standard Potentials in Aqueous Solution. Written by leading international experts and initiated by the IUPAC Commissions on Electrochemistry and Electroanalytical Chemistry, this remarkable work begins with a thorough review of basic concepts and methods for determining standard electrode potentials. Building upon this solid foundation, this convenient source proceeds to discuss the various redox couples for every known element. The chapters of this practical, time-saving guide are organized in order of the groups of elements on the periodic table, for easy reference to vital material. AND each chapter also contains the fundamental chemistry of elements ... numerous equations of chemical reactions ... easy-to-read tables of thermodynamic data ... and useful oxidation-state diagrams. Standard Potentials in Aqueous Solution is an ideal, handy reference for analytical and physical chemists, electrochemists, electroanalytical chemists, chemical engineers, biochemists, inorganic and organic chemists, and spectroscopists needing information on reactions and thermodynamic data in inorganic chemistry. And it is a valuable supplementary text for undergraduate- and graduate-level chemistry students.

Chemistry

The Molecular Science

Jones & Bartlett Learning Textbook outlining concepts of molecular science

NEET 2019 Chemistry Guide - 6th Edition

Disha Publications The thoroughly revised & updated 5th Edition of NEET 2018 Chemistry (Must for AIIMS/ JIPMER) is developed on the objective pattern following the chapter plan as per the NCERT books of class 11 and 12. • The new edition is empowered with an additional exercise which contains Exemplar & past 5 year NEET (2013 - 2017) questions. Concept Maps have been added for each chapter. • The book contains 31 chapters in all as per the NCERT books. • Each chapter provides exhaustive theory followed by a set of 2 exercises for practice. The first exercise is a basic exercise whereas the second exercise is advanced. • The solutions to all the questions have been provided immediately at the end of each chapter. The complete book has been aligned as per the chapter flow of NCERT class 11 & 12 books.

NEET 2018 Chemistry Guide - 5th Edition

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NEET Prep Guide 2022

Arihant Publications India limited "1. NEET Prep Guide is an ultimate guide for the preparation of the medical entrances 2. The book is divided into Three Sections; Physics, Chemistry and Biology 3. Each chapter carries 3 level exercises; Preliminary, Advanced and Previous question 4. For the complete assessment and understanding, 8 Unit Tests are given in every section 5. 5 full length Mock Tests, Solved papers of CBSE AIPMT & NTA NEET for practice 6. More than 10,000 objective questions are also given following Learning Management System (LMS) 7. Every question given in this guide is provided with detailed answers. 8. Free Revision booklet is also attached for the quick revision of theorem, formulae and concepts Keeping in mind, all the needs and problems of NEET Aspirants, here's presenting the newly updated edition of "NEET Prep Guide" serving as an apt study material for the preparation for all three subjects - Physics, Chemistry and Biology. Each chapter is well supported with complete text material along with Practice Questions arranged in two difficulty levels, giving step by step practice. For cumulative and regular practice, 8 Unit Tests are given in each section and 5 full length practice sets are given at the end of the book. More than 10,000 objective questions are also provided following Learning Management System (LMS), in terms of practicing the question gives Complete Practice & Assessment at each step in a scientific manner. Free Revision booklet is also attached for the quick revision of theorems, formulae and concepts before writing exam. This preparatory guide prepares aspirants to stand out in every screening parameters of the exam. TOC Physics - Physics and Measurement, Kinematics, Laws of Motion, Work, Energy and Power, Rotational Motion, Gravitation, Properties of Solids, Mechanical Properties of Fluids, Thermal Properties of Matter, Thermodynamics, Kinetic Theory of Gases, Simple Harmonic Motion, Wave Motion, Electrostatics, Capacitance, Current Electricity, Magnetic Effects of Current, Magnetism, EM Induction and AC, electromagnetic Waves, Ray Optics, Wave Optics, Dual Nature of Matter and Radiation, Atoms, Nuclear Physics and Radioactivity, Electronic Devices, Communication Systems. Chemistry- Matter and Laws of Chemical Combinations, Chemical Equations and Stoichiometry, States of Matter: Gaseous and Liquid States, States of Matter: Solid State, Atomic Structure, Radioactivity and Nuclear chemistry, Chemical Bonding and Molecular Structure, Chemical Thermodynamics, Solutions, Chemical Equilibrium, Ionic Equilibrium, Redox Reactions, Electrochemistry, Chemical Kinetics, Adsorption, Colloidal State, Periodic Classification and Periodic Properties, Principles and Process of Metallurgy, Hydrogen, s-, p-, d- & f- Block Elements, Coordination Compounds, Environmental Chemistry, Purification of Organic Compounds, Some Basic Principles of Organic Chemistry, Hydrocarbons, Organic Compounds Containing Halogens, Alcohols, Phenols and Ether, Aldehyde, Ketones and Carboxylic Acid, Organic Compounds Containing Nitrogen, Polymers, Biomolecules, Chemistry in Everyday Life. Biology- The Living World, Biological Classification, Plant Kingdom, Animal Kingdom, Morphology of Flowering Plants, Anatomy of Flowering Plants, Structural Organization in Animals, Cell, Biomolecules, Cell Cycle and Cell Division, Transport in Plants, Mineral Nutrition, Photosynthesis in Higher Plants, Cellular Respiration, Plant Growth and Development, Digestion and Absorption, Breathing and Exchange of Gases, Body Fluids and Circulation, Excretion in Animals, Locomotion and Movement, Neural Control and Coordination, Endocrine System, Reproduction in Organisms, Social Reproduction in Flowering Plants, Human Reproduction, Reproductive Health, Heredity and Variation, Molecular Basis of Inheritance, Evolution, Human Health and Diseases, Strategies for Enhancement in Food Production, Microbes in Human Welfare, Biotechnology, Biotechnology and Its Application, Organisms and Population, Ecosystem, Biodiversity and Its Conservation, Environmental Issues."

The Pearson Guide To Physical Chemistry For The Aipmt

Pearson Education India

The Solubility of Mercury and Some Sparingly Soluble Mercury Salts in Water and Aqueous Electrolyte Solutions

Study Guide

Cengage Learning Study more effectively and improve your performance at exam time with this comprehensive guide. The study guide includes: chapter summaries that highlight the main themes, study goals with section references, solutions to all textbook Example problems, and over 1,500 practice problems for all sections of the textbook. The Study Guide helps you organize the material and practice applying the concepts of the core text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

MHT CET Engineering Entrances Prep Guide Chemistry 2022

Arihant Publications India limited 1. The book deals with Chemistry subject for MHT CET entrances 2. The guide divided according to XI & XII Syllabus 3. Each chapter is accompanied with 3 level exercises 4. Complete coverage to 21 years' previous years' Solved Papers 5. Selected questions are given from 2021 online exam for quick revision Maharashtra Common Entrance Test or MHT CET is a state-level examination conducted by Maharashtra State Cell to give admission to the eligible candidates in Engineering and Pharmacy courses offered by Government & Private institutions across the state. The revised & updated edition of 'MHT CET Prep Guide 2022' deals with the subject of Chemistry that has been carefully designed to foster the quality of enhancement in the course of preparation for the upcoming paper. This book comprehensively covers all the chapters of Class XI & XII as per the latest reduced syllabus prescribed by the board. Providing a simple but effective approach to the subject matter, each chapter is well explained with detailed theories in a student friendly manner. For the complete practice of the exam, there are three-level exercises in each chapter ensuring step by step enhancement. Coverage to Previous 21 years' MHT CET Questions to get the exact idea of questions asked in exam and lastly, 5 Mock Tests are provided for quick revision of the concepts. With this edition of the book, you can hold the assurance of getting through the upcoming exam of MHT CET 2022. TOC Class XI: Some Basic Concepts of Chemistry, Structure of Atom, Chemical Bonding, Redox Reactions, Elements of Group 1 and 2, States of Matter: Gaseous and Liquid States, Adsorption and Colloids, Basic Principles of Organic Chemistry, Hydro Carbons, Solid States, Solutions, Ionic Equilibria, Chemical Thermodynamics, Electrochemistry, Chemical Kinetics, Elements of Groups 16, 17 and 18, Transition and Inner Transition Elements, Coordination Compounds, Halogen Derivatives, Alcohols, phenols and ethers, Aldehydes, ketones and carboxylic acid, Amines, Biomolecules, Introduction to Polymer Chemistry, Green Chemistry and Nanochemistry, Mock Test (1-5), Selected Questions (Online) MHTCET2021

The Pearson Guide To Inorganic Chemistry For The Iit Jee

Pearson Education India

The Pearson Guide to Objective Chemistry for the AIEEE

Pearson Education India

New Pattern NTA JEE Main Quick Guide in Chemistry with Numeric Answer Questions 3rd Edition

Disha Publications As NTA introduces Numeric Answer Questions in JEE Main, Disha launches the Questions' the 3rd latest updated edition of 'New Pattern NTA JEE Main Quick Guide in Chemistry with Numeric Answer Questions'. This study material is developed for quick revision and practice of the complete syllabus of the JEE Main Exam in a short span of 40 days. The book can prove to be the ideal material for class 12 students as they can utilise this book to revise their preparation immediately after the board exams. The book contains 27 chapters of class 11 & 12 and each Chapter contains: # JEE Main 6 Years at a Glance i.e., JEE Main (2019 - 2014) with TOPIC-WISE Analysis. # Detailed Concept Maps covers entire JEE Syllabus for speedy revision. # IMPORTANT/ CRITICAL Points of the Chapter for last minute revision. # TIPS to PROBLEM SOLVING - to help students to solve Problems in shortest possible time. # Exercise 1 CONCEPT BUILDER - A Collection of Important Topic-wise MCQs to Build Your Concepts. # Exercise 2 CONCEPT APPLICATOR - A Collection of Quality MCQs that helps sharpens your concept application ability. # Exercise 3 Numeric Answer Questions - A Collection of Quality Numeric Answer Questions as per the new pattern of JEE. # Answer Keys & Detailed Solutions of all the Exercises and Past years problems are provided at the end of the chapter.

Cambridge IGCSE® Chemistry Revision Guide

Cambridge University Press The Cambridge IGCSE Chemistry Revision Guide supports students through their course, containing specifically designed features to help students apply their knowledge as they prepare for assessment.

Code of Federal Regulations

2000-

Special edition of the Federal Register, containing a codification of documents of general applicability and future effect ... with ancillaries.

OECD Guidelines for the Testing of Chemicals / Section 1: Physical-Chemical properties Test No. 105: Water Solubility

OECD Publishing This Test Guideline describes methods to determine the water solubility of test substances. The water solubility of a substance is the saturation mass concentration of the substance in water at a given temperature. This guideline addresses the ...

A Practical Guide to Geometric Regulation for Distributed Parameter Systems

CRC Press A Practical Guide to Geometric Regulation for Distributed Parameter Systems provides an introduction to geometric control design methodologies for asymptotic tracking and disturbance rejection of infinite-dimensional systems. The book also introduces several new control algorithms inspired by geometric invariance and asymptotic attraction for a wide range of dynamical control systems. The first part of the book is devoted to regulation of linear systems, beginning with the mathematical setup, general theory, and solution strategy for regulation problems with bounded input and output operators. The book then considers the more interesting case of unbounded control and sensing. Mathematically, this case is more complicated and general theorems in this area have become available only recently. The authors also provide a collection of interesting linear regulation examples from physics and engineering. The second part focuses on regulation for nonlinear systems. It begins with a discussion of theoretical results, characterizing solvability of nonlinear regulator problems with bounded input and output operators. The book progresses to problems for which the geometric theory based on center manifolds does not directly apply. The authors show how the idea of attractive invariance can be used to solve a series of increasingly complex regulation problems. The book concludes with the solutions of challenging nonlinear regulation examples from physics and engineering.

Study Guide to Accompany Basics for Chemistry

Elsevier Study Guide to Accompany Basics for Chemistry is an 18-chapter text designed to be used with Basics for Chemistry textbook. Each chapter contains Overview, Topical Outline, Skills, and Common Mistakes, which are all keyed to the textbook for easy cross reference. The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms, a summary of general concepts, and a list of numerical exercises, while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook. The Fill-in, Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples. The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry, while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter. After briefly dealing with an overview of chemistry, this book goes on exploring the concept of matter, energy, measurement, problem solving, atom, periodic table, and chemical bonding. These topics are followed by discussions on writing names and formulas of compounds; chemical formulas and the mole; chemical reactions; calculations based on equations; gases; and the properties of a liquid. The remaining chapters examine the solutions; acids; bases; salts; oxidation-reduction reactions; electrochemistry; chemical kinetics and equilibrium; and nuclear, organic, and biological chemistry. This study guide will be of great value to chemistry teachers and students.

Student's Solution Guide to Accompany Zubay, Biochemistry, Second Edition

O-level Science-Chemistry Effective Guide (Yellowreef)

Yellowreef Limited • a beginner's guide to effective grasping of key concepts • explanations are quick and easy to understand • holistic question answering techniques • exact definitions • complete edition eBook available

Interpharm Master Keyword Guide

21 CFR Regulations of the Food and Drug Administration, 2002-2003 Edition

CRC Press The bestselling and most useful aid available for finding all references to FDA and DEA regulations. Interpharm Master Keyword Guide: 21 CFR Regulations of the Food and Drug Administration, is used in hundreds of active pharmaceuticals, pharmaceutical, biotechnology, diagnostic, and device manufacturing companies. And it is in use by every FDA district in the United States to sort their way through their own regulations. Each of the over 20,000 entries is quoted in context to provide instant access to every noun, phrase, and concept used by the DEA and FDA. The KEYWORD and SECTION TITLE are shown in upper case, the Subpart Title and/or Part Title are shown in capitals and lower case. How to use this guide: 1. Look up the keyword of interest 2. Note the context in which the keyword is mentioned in the section of title and the details of the subpart or part title to determine if it is the reference you need 3. When you find the correct reference, use the section number provided to look up the details of the regulations in the Code of Federal Regulations Title 21 Updated to include the latest changes in 21 CFR, the Interpharm Master Keyword Guide: 21 CFR Regulations of the Food and Drug Administration, 2002-2003 Edition makes it easy to find the exact section you need and apply it correctly.

A Comprehensive Guide to the Hazardous Properties of Chemical Substances

John Wiley & Sons The definitive guide to the hazardous properties of chemical compounds Correlating chemical structure with toxicity to humans and the environment, and the chemical structure of compounds to their hazardous properties, A Comprehensive Guide to the Hazardous Properties of Chemical Substances, Third Edition allows users to assess the toxicity of a substance even when no experimental data exists. Thus, it bridges the gap between hazardous materials and chemistry. Extensively updated and expanded, this reference: Examines organics, metals and inorganics, industrial solvents, common gases, particulates, explosives, and radioactive substances, covering everything from toxicity and carcinogenicity to flammability and explosive reactivity to handling and disposal practices Arranges hazardous chemical substances according to their chemical structures and functional groups for easy reference Includes updated information on the toxic, flammable, and explosive properties of chemical substances Covers additional metals in the chapters on toxic and reactive metals Updates the threshold exposure limits in the workplace air for a number of substances Features the latest information on industrial solvents and toxic and flammable gases Includes numerous tables, formulas, and a glossary for quick reference Because it provides information that enables those with a chemistry background to perform assessments without prior data, this comprehensive reference appeals to chemists, chemical engineers, toxicologists, and forensic scientists, as well as industrial hygienists, occupational physicians, Hazmat professionals, and others in related fields.

Characterization of Protein Therapeutics using Mass Spectrometry

Springer Science & Business Media This book highlights current approaches and future trends in the use of mass spectrometry to characterize protein therapies. As one of the most frequently utilized analytical techniques in pharmaceutical research and development, mass spectrometry has been widely used in the characterization of protein therapeutics due to its analytical sensitivity, selectivity, and specificity. This book begins with an overview of mass spectrometry techniques as related to the analysis of protein therapeutics, structural identification strategies, quantitative approaches, followed by studies involving characterization of process related protein drug impurities/degradants, metabolites, higher order structures of protein therapeutics. Both general practitioners in pharmaceutical research and specialists in analytical sciences will benefit from this book that details step-by-step approaches and new strategies to solve challenging problems related to protein therapeutics research and development.

The Code of Federal Regulations of the United States of America

The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

Handbook of Solubility Data for Pharmaceuticals

CRC Press Aqueous solubility is one of the major challenges in the early stages of drug discovery. One of the most common and effective methods for enhancing solubility is the addition of an organic solvent to the aqueous solution. Along with an introduction to cosolvency models, the Handbook of Solubility Data for Pharmaceuticals provides an extensive database of solubility for pharmaceuticals in mono solvents and binary solvents. Aqueous solubility data can be found in the Handbook of Aqueous Solubility Data by Samuel Yalkowsky and Yan He. Visit www.crcpress.com for more information. In addition to the experimental efforts to measure the solubility of drugs in mono and mixed solvents, this book discusses the advantages and limitations of a number of mathematical models used to predict the solubility in mono or mixed solvent systems. It covers the pharmaceutical cosolvents and other organic solvents that are used in syntheses, separations, and other pharmaceutical processes. The solutes featured include the available data for official drugs, drug candidates, precursors of drugs, metabolites, and degradation products of pharmaceuticals. The author also presents the solubilities of amino acids since they play an important role in peptide drug properties. Collecting drug solubilities in various cosolvents, this time-saving handbook includes the mixtures and model constants needed to predict undetermined solubilities. It describes mathematical models that enable data to be derived and provides estimates on how drugs are likely to behave in a given cosolvent. A software program and associated user manual are available on the author's website.

Aqueous Systems at Elevated Temperatures and Pressures

Physical Chemistry in Water, Steam and Hydrothermal Solutions

Elsevier The International Association for the Properties of Water and Steam (IAPWS) has produced this book in order to provide an accessible, up-to-date overview of important aspects of the physical chemistry of aqueous systems at high temperatures and pressures. These systems are central to many areas of scientific study and industrial application, including electric power generation, industrial steam systems, hydrothermal processing of materials, geochemistry, and environmental applications. The authors' goal is to present the material at a level that serves both the graduate student seeking to learn the state of the art, and also the industrial engineer or chemist seeking to develop additional expertise or to find the data needed to solve a specific problem. The wide range of people for whom this topic is important provides a challenge. Advanced work in this area is distributed among physical chemists, chemical engineers, geochemists, and other specialists, who may not be aware of parallel work by those outside their own specialty. The particular aspects of high-temperature aqueous physical chemistry of interest to one industry may be irrelevant to another; yet another industry might need the same basic information but in a very different form. To serve all these constituencies, the book includes several chapters that cover the foundational thermophysical properties (such as gas solubility, phase behavior, thermodynamic properties of solutes, and transport properties) that are of interest across numerous applications. The presentation of these topics is intended to be accessible to readers from a variety of backgrounds. Other chapters address fundamental areas of more specialized interest, such as critical phenomena and molecular-level solution structure. Several chapters are more application-oriented, addressing areas such as power-cycle chemistry and hydrothermal synthesis. As befits the variety of interests addressed, some chapters provide more theoretical guidance while others, such as those on acid/base equilibria and the solubilities of metal oxides and hydroxides, emphasize experimental techniques and data analysis. - Covers both the theory and applications of all Hydrothermal solutions - Provides an accessible, up-to-date overview of important aspects of the physical chemistry of aqueous systems at high temperatures and pressures - The presentation of the book is understandable to readers from a variety of backgrounds

Study Guide to Accompany Calculus for the Management, Life, and Social Sciences

Elsevier Study Guide to Accompany Calculus for the Management, Life, and Social Sciences

A Life Scientist's Guide to Physical Chemistry

Cambridge University Press Motivating students to engage with physical chemistry through biological examples, this textbook demonstrates how the tools of physical chemistry can be used to illuminate biological questions. It clearly explains key principles and their relevance to life science students, using only the most straightforward and relevant mathematical tools. More than 350 exercises are spread throughout the chapters, covering a wide range of biological applications and explaining issues that students often find challenging. These, along with problems at the end of each chapter and end-of-term review questions, encourage active and continuous study. Over 130 worked examples, many deriving directly from life sciences, help students connect principles and theories to their own laboratory studies. Connections between experimental measurements and key theoretical quantities are frequently highlighted and reinforced. Answers to the exercises are included in the book. Fully worked solutions and answers to the review problems, password-protected for instructors, are available at www.cambridge.org/rousseau.

Absorption and Drug Development: Solubility, Permeability, and Charge State

John Wiley & Sons Explains how to perform and analyze the results of the latest physicochemical methods With this book as their guide, readers have access to all the current information needed to thoroughly investigate and accurately determine a compound's pharmaceutical properties and their effects on drug absorption. The book emphasizes oral absorption, explaining all the physicochemical methods used today to analyze drug candidates. Moreover, the author provides expert guidance to help readers analyze the results of their studies in order to select the most promising drug candidates. This Second Edition has been thoroughly updated and revised, incorporating all the latest research findings, methods, and resources, including: Descriptions and applications of new PAMPA models, drawing on more than thirty papers published by the author's research group Two new chapters examining permeability and Caco-2/MDCK and permeability and the blood-brain barrier Expanded information and methods to support pKa determination New examples explaining the treatment of practically insoluble test compounds Additional case studies demonstrating the use of the latest physicochemical techniques New, revised, and expanded database tables throughout the book Well over 200 drawings help readers better understand difficult concepts and provide a visual guide to complex procedures. In addition, over 800 references serve as a gateway to the primary literature in the field, facilitating further research into all the topics covered in the book. This Second Edition is recommended as a reference for researchers in pharmaceutical R&D as well as in agrochemical, environmental, and other related areas of research. It is also recommended as a supplemental text for graduate courses in pharmaceuticals.

The Pearson Guide to Physical Chemistry for the IIT JEE

Pearson Education India