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A Short History of Chemistry James Riddick Partington 1989 This classic exposition explores the origins of chemistry, alchemy, early medical chemistry, nature of atmosphere, theory of valency, laws and structure of atomic theory, and much more.

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Introduction to Quantum Mechanics with Applications to Chemistry Linus Pauling 2012-06-08 Classic undergraduate text explores wave functions for the hydrogen atom, perturbation theory, the Pauli exclusion principle, and the structure of simple and complex molecules. Numerous tables and figures.

Modern Quantum Chemistry Attila Szabo 2012-06-08 This graduate-level text explains the modern in-depth approaches to the calculation of electronic structure and the properties of molecules. Largely self-contained, it features more than 150 exercises. 1989 edition.

Linus Pauling Clifford Mead 2008-03-01 One of the most brilliant scientists and most controversial individuals of the twentieth century, Linus Pauling was the only person to win two unshared Nobel Prizes. This unique volume, first published to mark the centenary of Pauling's birth, gathers his words and those of his contemporaries and students, together with photographs, drawings, and reproductions from the Pauling Papers. Pauling (1901-1994) was known for being outspoken and for leaping over scientific boundariesfrom physics to chemistry to biology to medical research. This collection draws a vivid portrait of a remarkable man'scientist, humanist, and activist?highlighting his larger-than-life personality and his singular achievements. As both scientist and citizen, Pauling was passionate and deeply thoughtful. He wrote The Nature of the Chemical Bond, one of the most cited sources in scientific history, and won the Nobel Prize in Chemistry in 1954. He risked his reputation during the McCarthy years as a vocal opponent of Cold War policies and nuclear proliferation. As a result, he was vilified by the press, investigated by the FBI, and awarded the 1962 Nobel Peace Prize.In the 1970s, Pauling again gained international recognition, this time for his advocacy of megadoses of vitamin C as a cure for cancer and cold prevention.

Mechanics J. P. Den Hartog 2013-03-13 This classic introductory text features hundreds of applications and design problems that illuminate fundamentals of trusses, loaded beams and cables, and related areas. Includes 334 answered problems.

General, Organic, and Biological Chemistry Dorothy M. Feigl 1986

General Chemistry Linus Pauling 2014-11-24 Revised third edition of classic first-year text by Nobel laureate. Atomic and molecular structure, quantum mechanics, statistical mechanics, thermodynamics correlated with descriptive chemistry. Problems.

College Chemistry Linus Pauling 1950

Elementary Quantum Chemistry Frank L. Pilar 2001-01-01 Useful introductory course and reference covers origins of quantum theory, Schrödinger wave equation, quantum mechanics of simple systems, electron spin, quantum states of atoms, Hartree-Fock self-consistent field method, more. 1990 edition.

The Nature of the Chemical Bond and the Structure of Molecules and Crystals 1945

Chemistry Richard Post 2020-09-16 THE QUICK AND PAINLESS WAY TO TEACH YOURSELF BASIC CHEMISTRY CONCEPTS AND TERMS Chemistry: A Self-Teaching Guide is the easy way to gain a solid understanding of the essential science of chemistry. Assuming no background knowledge of the subject, this clear and accessible guide covers the central concepts and key definitions of this fundamental science, from the basic structure of the atom to chemical equations. An innovative self-guided approach enables you to move through the material at your own pace—gradually building upon your knowledge while you strengthen your critical thinking and problem-solving skills. This edition features new and revised content throughout, including a new chapter on organic chemistry, designed to dramatically increase how fast you learn and how much you retain. This powerful learning resource features: An interactive, step-by-step method proven to increase your understanding of the fundamental concepts of chemistry Learning objectives, practice questions, study problems, and a self-review test in every chapter to reinforce your learning An emphasis on practical concepts and clear explanations to ensure that you comprehend the material quickly Engaging end-of-chapter stories connecting the material to a relevant topic in chemistry to bring important concepts to life Concise, student-friendly chapters describing major chemistry concepts and terms, including the periodic table, atomic weights, chemical bonding, solutions, gases, solids, and liquids Chemistry: A Self-Teaching Guide is an ideal resource for high school or college students taking introductory chemistry courses, for students taking higher level courses needing to refresh their knowledge, and for those preparing for standardized chemistry and medical career admission tests.

Linus Pauling Ted Goertzel 1995-09-07 Chronicles Pauling's life from the Oregon frontier to his political campaigns against nuclear testing and the medical establishment

Principles of Chemistry I 2015

Barron's AP Chemistry Neil D. Jespersen 2012-02-01 Reviews all subjects covered on the exam, presents study and test-taking tips, and provides a total of eight practice tests between book and CD.

Linus Pauling — Selected Scientific Papers Barclay Kamb 2001-11-02 Linus Pauling wrote a stellar series of over 800 scientific papers spanning an amazing range of fields, some of which he himself initiated. This book is a selection of the most important of his writings in the fields of quantum mechanics, chemical bonding (covalent, ionic, metallic, and hydrogen bonding), molecular rotation and entropy, protein structure, hemoglobin, molecular disease, molecular evolution, the antibody mechanism, the molecular basis of anesthesia, orthomolecular medicine, radiation chemistrybiology, and nuclear structure. Through these papers the reader gets a fresh, unfiltered view of the genius of Pauling's many contributions to chemistry, chemical physics, molecular biology, and molecular medicine.

Group Theory and Quantum Mechanics Michael Tinkham 2012-04-20 This graduate-level text develops the aspects of group theory most relevant to physics and chemistry (such as the theory of representations) and illustrates their applications to quantum mechanics. The first five chapters focus chiefly on the introduction of methods, illustrated by physical examples, and the final three chapters offer a systematic treatment of the quantum theory of atoms, molecules, and solids. The formal theory of finite groups and their representation is developed in Chapters 1 through 4 and illustrated by examples from the crystallographic point groups basic to solid-state and molecular theory. Chapter 5 is devoted to the theory of systems with full rotational symmetry, Chapter 6 to the systematic presentation of atomic structure, and Chapter 7 to molecular quantum mechanics. Chapter 8, which deals with solid-state physics, treats electronic energy band theory and magnetic crystal symmetry. A compact and worthwhile compilation of the scattered material on standard methods, this volume presumes a basic understanding of quantum theory.

Chemical Kinetics and Reaction Dynamics Paul L. Houston 2012-10-10 DIVThis text teaches the principles underlying modern chemical kinetics in a clear, direct fashion, using several examples to enhance basic understanding. Solutions to selected problems. 2001 edition. /div

Understanding Thermodynamics H.C. Van Ness 2012-06-08 Clear treatment of systems and first and second laws of thermodynamics features informal language, vivid and lively examples, and fresh perspectives. Excellent supplement for undergraduate science or engineering class.

Group Theory and Chemistry David M. Bishop 2012-07-12 Concise, self-contained introduction to group theory and its applications to chemical problems. Symmetry, matrices, molecular vibrations, transition metal chemistry, more. Relevant math included. Advanced-undergraduate/graduate-level. 1973 edition.

The VSEPR Model of Molecular Geometry Ronald J Gillespie 2013-03-21 Authoritative reference features extensive coverage of structural information as well as theory and applications. Helpful data on molecular geometries, bond lengths, and bond angles in tables and other graphics. 1991 edition.

Communicating Chemistry Anders Lundgren 2000 Historians and philosophers of science offer 18 papers from a European Science Foundation workshop held in Uppsala, Sweden, in February 1996, explore such questions as how

textbooks differ from other forms of chemical literature, under what conditions they become established as a genre, whether they develop a specific rhetoric, how their audiences help shape the profile of chemistry, translations, and other topics. Only names are indexed.
What is Chemistry? Peter Atkins 2013-08-22 Most people remember chemistry from their schooldays as a subject that was largely incomprehensible, fact-rich but understanding-poor, smelly, and so far removed from the real world of events and pleasures that there seemed little point, except for the most introverted, in coming to terms with its grubby concepts, spells, recipes, and rules. Peter Atkins wants to change all that. In What is Chemistry? he encourages us to look at chemistry anew, through a chemist's eyes, to understand its central concepts and to see how it contributes not only towards our material comfort, but also to human culture. Atkins shows how chemistry provides the infrastructure of our world, through the chemical industry, the fuels of heating, power generation, and transport, as well as the fabrics of our clothing and furnishings. By considering the remarkable achievements that chemistry has made, and examining its place between both physics and biology, Atkins presents a fascinating, clear, and rigorous exploration of the world of chemistry - its structure, core concepts, and exciting contributions to new cutting-edge technologies.

General chemistry Linus Pauling 1956
College Chemistry Linus Pauling 1955 An introduction to modern chemistry. Some aspects of chemical theory. Some non-metallic elements and their compounds. Water, solutions, chemical equilibrium. Metals and the compounds of metals. Organic chemistry, biochemistry, and nuclear chemistry.

Chemistry for Matriculation G. H. Bailey 2007-03 PREFACE. THE Author of this very practical treatise on Scotch Loch - Fishing desires clearly that it may be of use to all who had it. He does not pretend to have written anything new, but to have attempted to put what he has to say in as readable a form as possible. Everything in the way of the history and habits of fish has been studiously avoided, and technicalities have been used as sparingly as possible. The writing of this book has afforded him pleasure in his leisure moments, and that pleasure would be much increased if he knew that the perusal of it would create any bond of sympathy between himself and the angling community in general. This section is interleaved with blank shects for the readers notes. The Author need hardly say that any suggestions addressed to the case of the publishers, will meet with consideration in a future edition. We do not pretend to write or enlarge upon a new subject. Much has been said and written-and well said and written too on the art of fishing but loch-fishing has been rather looked upon as a second-rate performance, and to dispel this idea is one of the objects for which this present treatise has been written. Far be it from us to say anything against fishing, lawfully practised in any form but many pent up in our large towns will bear us out when me say that, on the whole, a days loch-fishing is the most convenient. One great matter is, that the loch-fisher is depend- ent on nothing but enough wind to curl the water, -and on a large loch it is very seldom that a dead calm prevails all day, -and can make his arrangements for a day, weeks beforehand whereas the stream- fisher is dependent for a good take on the state of the water and however pleasant and easy it may be for one living near the banks of a good trout stream or river, it is quite another matter to arrange for a days river-fishing, if one is looking forward to a holiday at a date some weeks ahead. Providence may favour the expectant angler with a good day, and the water in order but experience has taught most of us that the good days are in the minority, and that, as is the case with our rapid running streams, -such as many of our northern streams are, -the water is either too large or too small, unless, as previously remarked, you live near at hand, and can catch it at its best. A common belief in regard to loch-fishing is, that the tyro and the experienced angler have nearly the same chance in fishing, - the one from the stern and the other from the bow of the same boat. Of all the absurd beliefs as to loch-fishing, this is one of the most absurd. Try it. Give the tyro either end of the boat he likes give him a cast of ally flies he may fancy, or even a cast similar to those which a crack may be using and if he catches one for every three the other has, he may consider himself very lucky. Of course there are lochs where the fish are not abundant, and a beginner may come across as many as an older fisher but we speak of lochs where there are fish to be caught, and where each has a fair chance. Again, it is said that the boatman has as much to do with catching trout in a loch as the angler. Well, we dont deny that. In an untried loch it is necessary to have the guidance of a good boatman but the same argument holds good as to stream-fishing...

From X-rays to Quarks Emilio Segrè 2012-05-03 A Nobel Laureate offers impressions of the development of modern physics, emphasizing complex but less familiar personalities. Offers fascinating scientific background and compelling treatments of topics of current interest. 1980 edition.

Boron Hydrides William N. Lipscomb 2013-05-13 This classic monograph by a Nobel Prize-winning chemist covers the general structural principles and reactions of boron hydrides and related compounds. Includes more than 120 diagrams and figures. 1963 edition.

No More War! Linus Pauling 1983

How to Live Longer and Feel Better Linus Pauling 2006-05-01 How to Live Longer and Feel Better introduces to a new generation of health-conscious readers Linus Pauling's regimen for healthy longevity. Eminently readable and challenging, and a New York Times bestseller when it was first published in 1986, Pauling's seminal work helped to revolutionize the way Americans think about nutrition.

Neither Physics nor Chemistry Kostas Gavroglu 2011-10-07 The evolution of a discipline at the intersection of physics, chemistry, and mathematics. Quantum chemistry—a discipline that is not quite physics, not quite chemistry, and not quite applied mathematics—emerged as a field of study in the 1920s. It was referred to by such terms as mathematical chemistry, subatomic theoretical chemistry, molecular quantum mechanics, and chemical physics until the community agreed on the designation of quantum chemistry. In *Neither Physics Nor Chemistry*, Kostas Gavroglu and Ana Simões examine the evolution of quantum chemistry into an autonomous discipline, tracing its development from the publication of early papers in the 1920s to the dramatic changes brought about by the use of computers in the 1970s. The authors focus on the culture that emerged from the creative synthesis of the various traditions of chemistry, physics, and mathematics. They examine the concepts, practices, languages, and institutions of this new culture as well as the people who established it, from such pioneers as Walter Heitler and Fritz London, Linus Pauling, and Robert Sanderson Mulliken, to later figures including Charles Alfred Coulson, Raymond Daudel, and Per-Olov Löwdin. Throughout, the authors emphasize six themes: epistemic aspects and the dilemmas caused by multiple approaches; social issues, including academic politics, the impact of textbooks, and the forging of alliances; the contingencies that arose at every stage of the developments in quantum chemistry; the changes in the field when computers were available to perform the extraordinarily cumbersome calculations required; issues in the philosophy of science; and different styles of reasoning.

Solving General Chemistry Problems Robert Nelson Smith 1980-01-01

The Feynman Lectures on Physics, Vol. III Richard P. Feynman 2011-10-04 New edition features improved typography, figures and tables, expanded indexes, and 885 new corrections.

Vitamin C, the Common Cold, and the Flu Linus Pauling 1970 The Noble laureate and vitamin-C champion reviews the evidence supporting the value of vitamin C for controlling the common cold, influenza, and other viral diseases

Calculus Morris Kline 2013-05-09 Application-oriented introduction relates the subject as closely as possible to science with explorations of the derivative; differentiation and integration of the powers of x; theorems on differentiation, antidifferentiation; the chain rule; trigonometric functions; more. Examples. 1967 edition.

Lehninger Principles of Biochemistry David L. Nelson 2008-02 Authors Dave Nelson and Mike Cox combine the best of the laboratory and best of the classroom, introducing exciting new developments while communicating basic principles of biochemistry.

A Lifelong Quest for Peace Linus Pauling 1992 A Lifelong Quest for Peace: A Dialogue will provided readers the opportunity to get to know Dr. Pauling and Mr. Ikeda, as they seek to provide pointers to help the young people of today solve the problems of the twenty-first century.

Transition Metals in the Synthesis of Complex Organic Molecules Louis S. Hegedus 1999 This second edition offers easy access to the field of organotransition metal chemistry. The book covers the basics of transition metal chemistry, giving a practical introduction to organotransition reaction mechanisms.

Linus Pauling in His Own Words Linus Pauling 1995-10-30 Selected writings share the late scientist's views on chemistry, education, the structure of matter, proteins, nuclear politics, fallout, and nutritional medicine