

Elements Of Chemistry Dover Books On Chemistry

Human Anatomy in Full Color
Modern Quantum Chemistry
Chemical Magic
Oxygen, Acids, and Water
Chemistry
Molecular Physics and Elements of Quantum Chemistry
Elements of Chemical Thermodynamics
A Book of Abstract Algebra
From Alchemy to Chemistry
Through Alchemy to Chemistry
The Sense of Beauty
Introduction to Quantum Mechanics with Applications to Chemistry
Molecular Quantum Electrodynamics
Elements for Physics
Elementary Quantum Chemistry
Elements of Chemistry
Euclid's Elements
Elements of Chemistry
Decorative Frames and Borders: 396 Examples from the Renaissance to the Present Day
Electronic Structure and the Properties of Solids
Elementary Chemical Thermodynamics
Mendeleev on the Periodic Law
The Periodic Table Book
Finite Elements and Approximation
Elements of Classical and Statistical Thermodynamics
Foundations of the Atomic Theory
Elements of Advanced Quantum Theory
Elements of Environmental Chemistry
Probability Theory
Elements of Chemical Thermodynamics
The Kid's Book of the Elements
The Elements of Chemistry
Molecules & Elements: Science for Kids | Children's Chemistry Books Edition
Symmetry and Spectroscopy
An Introduction to Celestial Mechanics
Quantum Mechanics
Atomic Spectra and Atomic Structure
The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5)
Reactions
The Curves of Life

Human Anatomy in Full Color

Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its

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easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

Modern Quantum Chemistry

This textbook introduces the molecular and quantum chemistry needed to understand the physical properties of molecules and their chemical bonds. It follows the authors' earlier textbook "The Physics of Atoms and Quanta" and presents both experimental and theoretical fundamentals for students in physics and physical and theoretical chemistry. The new edition treats new developments in areas such as high-resolution two-photon spectroscopy, ultrashort pulse spectroscopy, photoelectron spectroscopy, optical investigation of single molecules in condensed phase, electroluminescence, and light-emitting diodes.

Chemical Magic

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.

Oxygen, Acids, and Water

The significance of the spiral in nature, art, science, and the phenomena of life and growth is probed

Chemistry

For beginners and specialists in other fields: the Nobel Laureate's

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introduction to atomic spectra and their relationship to atomic structures, stressing basics in a physical, rather than mathematical, treatment. 80 illustrations.

Molecular Physics and Elements of Quantum Chemistry

A powerful tool for the approximate solution of differential equations, the finite element is extensively used in industry and research. This book offers students of engineering and physics a comprehensive view of the principles involved, with numerous illustrative examples and exercises. Starting with continuum boundary value problems and the need for numerical discretization, the text examines finite difference methods, weighted residual methods in the context of continuous trial functions, and piecewise defined trial functions and the finite element method. Additional topics include higher order finite element approximation, mapping and numerical integration, variational methods, and partial discretization and time-dependent problems. A survey of generalized finite elements and error estimates concludes the text.

Elements of Chemical Thermodynamics

The third book in Theodore Gray's bestselling Elements Trilogy, *Reactions* continues the journey through the world of chemistry that began with his two previous bestselling books *The Elements* and *Molecules*. With *The Elements*, Gray gave us a never-before-seen, mesmerizing photographic view of the 118 elements in the periodic table. In *Molecules*, he showed us how the elements combine to form the content that makes up our universe. With *Reactions* Gray once again puts his one-of-a-kind photography and storytelling ability to work demonstrating how molecules interact in ways that are essential to our very existence. The book begins with a brief

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recap of elements and molecules and then goes on to explain important concepts that characterize a chemical reaction, including Energy, Entropy, and Time. It is then organized by type of reaction including chapters such as "Fantastic Reactions and Where to Find Them," "On the Origin of Light and Color," "The Boring Chapter," in which we learn about reactions such as paint drying, grass growing, and water boiling, and "The Need for Speed," including topics such as weather, ignition, and fire.

A Book of Abstract Algebra

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.

From Alchemy to Chemistry

Twenty-five exceptionally clear and detailed anatomical plates — with labels and extensive captions — depict the skeleton, spine, bones, joints, skull, muscles, skin and limbs; heart, stomach, other organs; much more.

Through Alchemy to Chemistry

The founder of Hungary's Probability Theory School, A. Rényi made significant contributions to virtually every area of mathematics. This introductory text is the product of his extensive teaching experience and is geared toward readers who wish to learn the basics of probability theory, as well as those who wish to attain a thorough knowledge in the field. Based on the author's lectures at the University of Budapest, this text requires no preliminary knowledge of probability theory. Readers should, however, be

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familiar with other branches of mathematics, including a thorough understanding of the elements of the differential and integral calculus and the theory of real and complex functions. These well-chosen problems and exercises illustrate the algebras of events, discrete random variables, characteristic functions, and limit theorems. The text concludes with an extensive appendix that introduces information theory.

The Sense of Beauty

Antoine Lavoisier's great accomplishments include the discovery of oxygen's role in combustion, helping to develop the metric system, writing the first extensive list of elements, helping to reform the nomenclature of chemistry, and the discovery that while matter may change shape through chemical reaction its mass remains the same. It is for these extraordinary accomplishments that he is often referred to as the "Father of Modern Chemistry." Some scholars argue that this moniker is more the result of self-promotion and that his discoveries relied heavily on the work of others, nonetheless his impact on advancing this field of science cannot be understated. "Elements of Chemistry" was first published in 1790 and is largely concerned with the chemistry of combustion. While modern students of chemistry might find the work limited in its scope, the historical impact of its publication cannot be understated. The experiments contained within helped to lay the foundation for the understanding of the role of oxygen, hydrogen, acids, and alcohols in chemical reactions and its emphasis on quantitative analysis and instrumentation helped to establish the use of chemistry as a legitimate science for understanding and defining the physical world.

Introduction to Quantum Mechanics with Applications to Chemistry

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Subjects include formalism and its interpretation, analysis of simple systems, symmetries and invariance, methods of approximation, elements of relativistic quantum mechanics, much more. "Strongly recommended." -- "American Journal of Physics."

Molecular Quantum Electrodynamics

The great philosopher, essayist, poet, and novelist masterfully offers his fascinating outline of Aesthetics Theory. Drawing on the art, literature, and social sciences involved, Santayana discusses the nature of beauty, form, and expression.

Elements for Physics

"Discover the amazing workings of chemistry in every part of our lives"--Cover.

Elementary Quantum Chemistry

One of the most revolutionary scientific works ever written, and also one of the most accessible, Lavoisier's Elementary -Treatise on Chemistry established the constancy of weight in chemical reactions, revealed the composition of water, and set forth a clear concept of the nature of gases. The Treatise cemented a new, -rational nomenclature that accurately expressed the nature of materials, overthrowing such colorful but deceptive names as "flowers of sulfur" and "butter of arsenic." Impressed by Condillac's maxim, "the art of reasoning is, at bottom, nothing else but a well-constructed language," Lavoisier presents experimental facts in expressions that are vivid, exact, and often poetical. As a result, the Treatise is still, after more than 200 years, a model of clarity and a beautiful example of scientific reasoning. Lavoisier's magnificent work was last translated into English in 1790, in a style that even

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then could be considered wooden and excessively formalistic. Now Chester Burke and Matthew Holtzman, faculty members at St. John's College in Annapolis, have provided a rendition that preserves the -natural and unadorned liveliness of Lavoisier's narrative prose. Even more valuable to nonspecialist readers of this Module is Howard Fisher's commentary, unobtrusively keyed to the text at the bottom of each page. For each word or phrase that is likely to be unfamiliar, Fisher gives a clear explanation. Obsolete chemical terms, physical concepts, archaic or obscure words, and unfamiliar references are fully explained. And, most important for those unable to repeat Lavoisier's experiments, Fisher lucidly describes the equipment and the procedures, and discusses the significance of the results. Readers who think, "Oh, this is science--I never could understand it," will be surprised to discover the clear and persuasive way that Lavoisier's beautiful language, assisted by Fisher's notes, brings this extraordinary and foundational work of science to life as human thought, and even as poetry.

Elements of Chemistry

Euclid's Elements

Broad, humanistic treatment focuses on great figures of chemistry and ideas that revolutionized the science. Much on alchemy, also development of modern chemistry, atomic theory, elements, organic chemistry, more. 50 illustrations.

Elements of Chemistry

Monumental classic by the founder of modern chemistry features first explicit statement of law of conservation of matter in chemical change, and more. Facsimile reprint of original (1790) Kerr

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translation.

Decorative Frames and Borders: 396 Examples from the Renaissance to the Present Day

Informal, effective undergraduate-level text introduces vibrational and electronic spectroscopy, presenting applications of group theory to the interpretation of UV, visible, and infrared spectra without assuming a high level of background knowledge. 200 problems with solutions. Numerous illustrations. "A uniform and consistent treatment of the subject matter." — Journal of Chemical Education.

Electronic Structure and the Properties of Solids

Elementary Chemical Thermodynamics

A fun, fascinating, and amazingly photographic exploration of the periodic table, for curious kids who want to understand how atoms and elements make up everything in the universe. In this very special kids' edition of Theodore Gray's *The Elements*, budding scientists, ages 6 to 9, will learn all about every element in the periodic table from the first element, Hydrogen (1), to the very last element, Oganesson (118). Filled with great big colorful photographs and fun facts for every element, *The Kid's Book of The Elements* is the perfect introduction to the fascinating world of chemistry and visual/tactile-based STEM/STEAM learning. This edition also includes 120 sturdy tear-out cards of each element for kids to play with and arrange on their own.

Mendeleev on the Periodic Law

Reviews and extends the theory of Lie groups, develops differential

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geometry, proposing compact definitions of torsion and of curvature, and adapts the usual notion of linear tangent application to the intrinsic point of view proposed for physics. Uses a unifying illustration: two simple theories are studied with some detail, the theory of heat conduction and the theory of linear elastic media. Shows that the resulting equations derived in this manner differ quantitatively and qualitatively from those usually presented.

The Periodic Table Book

Finite Elements and Approximation

This text addresses the use of purely thermal data in calculating the position of equilibrium in a chemical reaction. Its argument highlights the physical content of thermodynamics, as distinct from purely mathematical aspects. Methods are limited to a very few of the most elementary operations of the calculus, all of which are explained in an appendix. Readers need no more than a sound background in high school mathematics and physics, as well as some familiarity with the leading quantitative concepts of an introductory college chemistry course. An introduction establishes the fundamentals of temperature, heat and work, reversibility, and pressure-volume work. The first principle of thermodynamics is explored in terms of energy, enthalpy, thermochemistry and Hess's Law, heat capacity, Kirchhoff's equations, and adiabatic processes. Considerations of the second principle of thermodynamics encompass the Carnot cycle, the concept of entropy, and evaluation of entropy changes. The consequences of thermodynamic principles are examined in chapters on the free energies, the Clapeyron equation, ideal solutions and colligative properties, and the equilibrium state and equilibrium constant. Numerous problems appear throughout the text, in addition to 30 fully worked

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illustrative examples.

Elements of Classical and Statistical Thermodynamics

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.

Foundations of the Atomic Theory

A giant and varied collection of borders and frames for the use of artists and designers. Drawn from numerous first-rate sources, this book covers practically every style, mood, and form as interpreted through the whole range of art movements and historical periods.

Elements of Advanced Quantum Theory

The basics of environmental chemistry and a toolbox for solving problems Elements of Environmental Chemistry uses real-world examples to help readers master the quantitative aspects of environmental chemistry. Complex environmental issues are presented in simple terms to help readers grasp the basics and solve relevant problems. Topics covered include: steady- and non-steady-state modeling, chemical kinetics, stratospheric ozone, photochemical smog, the greenhouse effect, carbonate equilibria, the application of partition coefficients, pesticides, and toxic metals. Numerous sample problems help readers apply their skills. An interactive textbook for students, this is also a great refresher course for practitioners. A solutions manual is available for Academic Adopters. Please click the solutions manual link on the top left side of this page to request the manual.

Elements of Environmental Chemistry

This text introduces thermodynamic principles in a straightforward manner. Suitable for advanced undergraduates and graduate students, it emphasizes chemical applications and physical interpretations and simplifies mathematical development. 1964 edition.

Probability Theory

This text offers basic understanding of the electronic structure of covalent and ionic solids, simple metals, transition metals and their compounds; also explains how to calculate dielectric, conducting, bonding properties.

Elements of Chemical Thermodynamics

The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements, especially of the technologically important elements uranium and plutonium, as well as the transactinide elements. In addition to the comprehensive treatment of the chemical properties of each element, ion, and compound from atomic number 89 (actinium) through to 109 (meitnerium), this multi-volume work has specialized and definitive chapters on electronic theory, optical and laser fluorescence spectroscopy, X-ray absorption spectroscopy, organoactinide chemistry, thermodynamics, magnetic properties, the metals, coordination chemistry, separations, and trace analysis. Several chapters deal with environmental science, safe handling, and biological interactions of the actinide elements. The Editors invited teams of authors, who are active practitioners and recognized experts in their specialty, to write each chapter and have endeavoured to provide a

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balanced and insightful treatment of these fascinating elements at the frontier of the periodic table. Because the field has expanded with new spectroscopic techniques and environmental focus, the work encompasses five volumes, each of which groups chapters on related topics. All chapters represent the current state of research in the chemistry of these elements and related fields.

The Kid's Book of the Elements

Classic guide provides intriguing entertainment while elucidating sound scientific principles, with more than 100 unusual stunts: cold fire, dust explosions, a nylon rope trick, a disappearing beaker, much more.

The Elements of Chemistry

Molecules & Elements: Science for Kids | Children's Chemistry Books Edition

The Periodic Table Book is the perfect visual guide to the chemical elements that make up our world. This eye-catching encyclopedia takes children on a visual tour of the 118 chemical elements of the periodic table, from argon to zinc. It explores the naturally occurring elements, as well as the man-made ones, and explains their properties and atomic structures. Using more than 1,000 full-colour photographs, The Periodic Table Book shows the many natural forms of each element, as well as a wide range of both everyday and unexpected objects in which it is found, making each element relevant for the child's world.

Symmetry and Spectroscopy

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Science can be tough but that doesn't mean it can't be made fun for kids to understand. It all depends on the presentation of the subject. In this case, it's all about the combination of texts, examples and images. Because your child will be asked to answer a lot examples, true understanding will take root. Secure a copy now!

An Introduction to Celestial Mechanics

This textbook gives a connected mathematical derivation of the important mathematical results, concentrating on the central ideas without including elaborate detail or unnecessary rigour, and explaining in the simplest terms the symbols and concepts which confront the researcher in solid state, nuclear or high-energy physics.

Quantum Mechanics

The classic Heath translation, in a completely new layout with plenty of space and generous margins. An affordable but sturdy student and teacher sewn softcover edition in one volume, with minimal notes and a new index/glossary.

Atomic Spectra and Atomic Structure

This is the first English-language collection of Mendeleev's most important writings on the subject, consisting of 13 essays and offering a history of the law's development by its own founder.

The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5)

This survey of purely thermal data in calculating the position of equilibrium in a chemical reaction highlights the physical content of

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thermodynamics, as distinct from purely mathematical aspects.
1970 edition.

Reactions

Self-contained, systematic introduction examines application of quantum electrodynamics to interpretation of optical experiments on atoms and molecules and explains the quantum theory of electromagnetic radiation and its interaction with matter.

The Curves of Life

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