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Peter William Atkins FRSC is an English chemist and a Fellow of Lincoln College at the University of Oxford. He retired in 2007. He is a prolific writer of popular chemistry textbooks, including Physical Chemistry, Inorganic Chemistry, and Molecular Quantum Mechanics. Atkins is also the author of a number of popular science books, including Atkins' Molecules, Galileo's Finger: The Ten Great Ideas of Science and On Being.

Peter Atkins - Wikipedia

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Combining broad coverage with an innovative use of pedagogy, Atkins' Physical Chemistry remains the textbook of choice for studying physical chemistry. Significant re-working of the text design makes this edition more accessible for students, while also creating a clean and effective textthat is more flexible for instructors to teach from.

Atkins' Physical Chemistry: Molecular Thermodynamics and Kinetics is designed for use on the second semester of a quantum-first physical chemistry course. Based on the hugely popular Atkins' Physical Chemistry, this volume approaches molecular thermodynamics with the assumption that students will have studied quantum mechanics in their first semester. The exceptional quality of previous editions has been built upon to make this new edition of Atkins' Physical Chemistry even more closely suited to the needs of both lecturers and students. Re-organised into discrete 'topics', the text is more flexible to teach from and more readable for students. Now in its eleventh edition, the text has been enhanced with additional learning features and maths support to demonstrate the absolute centrality of mathematics to physical chemistry. Increasing the digestibility of the text in this new approach, the reader is brought to a question, then the math is used to show how it can be answered and progress made. The expanded and redistributed maths support also includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques right where they need them. Checklists of key concepts at the end of each topic add to the extensive learning support provided throughout the book, to reinforce the main take-home messages in each section. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure Atkins' Physical Chemistry remains the textbook of choice for studying physical chemistry.

This volume features a greater emphasis on the molecular view of physical chemistry and a move away from classical thermodynamics. It offers greater explanation and support in mathematics which remains an intrinsic part of physical chemistry.

The ideal course companion, Elements of Physical Chemistry is written specifically with the needs of undergraduate students in mind, and provides extensive mathematical and pedagogical support while remaining concise and accessible. For the seventh edition of this much-loved text, the material has been reorganized into short Topics, which are grouped into thematic Focuses to make the text more digestible for students, and more flexible for lecturers to teach from. At the beginning of each Topic, three questions are posed, emphasizing why it is important, what the key idea is, and what the student should already know. Throughout the text, equations are clearly labeled and annotated, and detailed 'justification' boxes are provided to help students understand the crucial mathematics which underpins physical chemistry. Furthermore, Chemist's toolkits provide succinct reminders of key mathematical techniques exactly where they are needed in the text. Frequent worked examples, in addition to self-test questions and end-of-chapter exercises, help students to gain confidence and experience in solving problems. This diverse suite of pedagogical features, alongside an appealing design and layout, make Elements of Physical Chemistry the ideal course text for those studying this core branch of chemistry for the first time.

Peter Atkins and Julio de Paula offer a fully integrated approach to the study of physical chemistry and biology.

Atkins' Physical Chemistry is widely acknowledged by both students and lecturers around the globe to be the textbook of choice for studying physical chemistry. Now in its eleventh edition, the text has been re-organised into discrete Topics, breaking down material to help you build confidence, and grouped into overarching Focuses, to show you the bigger picture. Enhanced with additional learning features and maths support, the text helps you learn more effectively with: detailed annotations of worked examples, broken into clear steps with sign-posted 'physical interpretation' sections; a new 'How is that done?' feature, which brings you to a question by leading you through the solution; 'Chemist's toolkits', which provide you with succinct reminders of mathematical concepts and techniques right where you need them. This volume covers quantum chemistry, spectroscopy, and statistical thermodynamics. Beginning with an examination of the structures and properties of individual atoms and molecules, the volume then goes on to show how structural data are used to predict and explain the bulk thermodynamics properties and the ways that intermolecular forces lead to the aggregation of molecules. This volume ends with a consideration of how molecular properties influence the properties of the resulting liquids and solids, and how the structure of these condensed phases are determined. -- From back cover.

Elements of Physical Chemistry has been carefully crafted to help students increase their confidence when using physics and mathematics to answer fundamental questions about the structure of molecules, how chemical reactions take place, and why materials behave the way they do.

The Student Solutions Manual to accompany Atkins' Physical Chemistry 11th Edition provides full worked solutions to the "a" exercises, and the odd-numbered discussion questions and problems presented in the parent book. The manual is intended for students and provides helpful comments andfriendly advice to aid understanding.

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.

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