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College, Portland, Oregon) and published by Oxford University Press in 2006.

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P. W. Atkins: Physical Chemistry, 4th Edition, Oxford University Press, Oxford, ISBN 0-19-855284-X, 1990. 995 Seiten, Preis: £ 19.50 (Paperback).

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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.

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The exceptional quality of previous editions has been built upon to make the tenth edition of Atkins' Physical Chemistry even more closely suited to the needs of both students and lecturers. The text has been enhanced with additional learning features and maths support, and has been radically restructured into short focussed topics. An innovative use of pedagogy is combined with rigorous but accessible coverage of the subject to ensure Atkins' Physical Chemistry tenth edition remains the textbook of choice for studying physical chemistry. New to this edition : significant reorganization of the material within each chapter into discrete 'topics' makes the text more readable for students and more flexible for instructors ; expanded maths support includes new 'Chemist's toolkits' which provide students with succinct reminders of

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mathematical concepts and techniques ; three questions at the beginning of each topic engage and focus the attention of the reader : 'Why do you need to know this material ?', 'What is the key idea ?', and 'What do you need to know already ?' ; New checklists of key concepts at the end of each topic reinforce the main take-home messages in each section.

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

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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

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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.

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

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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

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course text for those studying this core branch of chemistry for the first time.

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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

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"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 and friendly advice to aid understanding.

aspects of the learning process are fully supported, including the understanding of terminology, notation, mathematical concepts, and the application of physical chemistry to other branches of science." "Building on the heritage of the world-renowned Atkins' Physical Chemistry , Quanta, Matter, and Change gives a refreshing new insight into the familiar by illuminating physical chemistry from a new direction." --Book Jacket.

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