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Atkins physical chemistry 11th edition answer key 2019 pdf

Peter Atkins is a fellow of Lincoln College in the University of Oxford and the author of about seventy books for students and a general audience. His texts are market leaders around the globe. A frequent lecturer in the United States and throughout the world, he has held visiting professorships in France, Israel, Japan, China, and New Zealand. He was the founding chairman of the Committee on Chemistry Education of the International Union of Pure and Applied Chemistry and was a member of IUPAC's Physical and Biophysical Chemistry Division. Peter was the 2016 recipient of the American Chemical Society's Grady-Stack Award for science journalism. Julio de Paula is Professor of Chemistry, Lewis and Clark College. A native of Brazil, Professor de Paula received a B.A. degree in chemistry from Rutgers, The State University of New Jersey, and a Ph.D. in biophysical chemistry from Yale University. His research activities encompass the areas of molecular spectroscopy, biophysical chemistry, and nanoscience. He has taught courses in general chemistry, physical chemistry, biophysical chemistry, instrumental analysis, and writing. James Keeler is Director of Teaching at the Department of Chemistry and Senior Tutor at Selwyn College, University of Cambridge. He is Editor-in-Chief of the journal *Magnetic Resonance in Chemistry*, and immediate past-Chairman of the Royal Society of Chemistry's NMR Discussion Group. Volume 3: Molecular Thermodynamics and Kinetics Eleventh Edition Peter Atkins, Julio de Paula, and James Keeler Publication Date - October 2019 ISBN: 9780198823360 472 pages Paperback 10.9 x 8.6 inches In Stock Retail Price to Students: \$104.99 Description New to this Edition Book Information

▼ Table of Contents 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. New to this Edition Significant re-working of the presentation makes the book more readable for students and more flexible for instructors to teach from, creating a clean and effective mode of delivering the material 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?' Expanded and redistributed math support includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques throughout the chapters New checklist of key concepts at the end of each topic reinforces the main take-home messages for each section Rewritten end of chapter problems, with the goal of leading the reader to a solution, breaking them down into clear steps and encouraging problem-solving skills Suitable for quantum-first courses Features About the Author(s) Features In addition to material from the eleventh edition of Atkins' Physical Chemistry, this volume contains exclusive new content written for those studying thermodynamics with a molecular perspective in the second semester of a quantum-first physical chemistry course. Highly respected and well-established text which evolves with every edition to meet the needs of current students Exceptional mathematical support - including annotated equations, equation checklists, and maths background sections - enables students to master the maths which underlies physical chemistry The development of problem solving and analytical skills is actively encouraged by frequent worked examples, discussion questions, exercises, and problems A range of other learning features, including notes on good practice, brief illustrations, and key concept checklists, are incorporated throughout to aid students in their study of physical chemistry Peter Atkins, Fellow of Lincoln College, University of Oxford, Julio de Paula, Professor of Chemistry, Lewis & Clark College, US, James Keeler, Department of Chemistry and Selwyn College, University of Cambridge Peter Atkins is a fellow of Lincoln College in the University of Oxford and the author of about seventy books for students and a general audience. His texts are market leaders around the globe. A frequent lecturer in the United States and throughout the world, he has held visiting professorships in France, Israel, Japan, China, and New Zealand. He was the founding chairman of the Committee on Chemistry Education of the International Union of Pure and Applied Chemistry and was a member of IUPAC's Physical and Biophysical Chemistry Division. Peter was the 2016 recipient of the American Chemical Society's Grady-Stack Award for science journalism. Julio de Paula is Professor of Chemistry, Lewis & Clark College. A native of Brazil, Professor de Paula received a B.A. degree in chemistry from Rutgers, The State University of New Jersey, and a Ph.D. in biophysical chemistry from Yale University. His research activities encompass the areas of molecular spectroscopy, biophysical chemistry, and nanoscience. He has taught courses in general chemistry, physical chemistry, biophysical chemistry, instrumental analysis, and writing. 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