

1: Chemistry: A Molecular Approach (Subscription), 4th Edition

The Fourth Edition of Nivaldo Tro's Chemistry: A Molecular Approach reinforces development of 21st century skills including data interpretation and analysis, problem solving and quantitative reasoning, applying conceptual understanding to new situations and peer-to-peer collaboration.

A Molecular Approach reinforces development of 21st century skills including data interpretation and analysis, problem solving and quantitative reasoning, applying conceptual understanding to new situations and peer-to-peer collaboration. Nivaldo Tro presents chemistry visually through multi-level images—macroscopic, molecular, and symbolic representations—helping readers see the connections between the world they see around them macroscopic, the atoms and molecules that compose the world molecular, and the formulas they write down on paper symbolic. The benefits of Dr. New Key Concept Videos explain difficult concepts while new end-of-chapter problems including Group Work questions and Data Interpretation and Analysis questions engage readers in applying their understanding of chemistry. The revision has been constructed to easily incorporate material to engage readers. Also available with MasteringChemistry MasteringChemistry from Pearson is the leading online homework, tutorial, and assessment system, designed to improve results by engaging you before, during, and after class with powerful content. You can further master concepts after class through traditional and adaptive homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess your understanding and misconceptions. Mastering brings learning full circle by continuously adapting to your learning and making learning more personal than ever—before, during, and after class. You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MasteringChemistry, search for: A Molecular Approach 1. Matter, Measurement, and Problem Solving 2. Atoms and Elements 3. Molecules, Compounds, and Chemical Equations 4. Chemical Quantities and Aqueous Reactions 5. The Quantum-Mechanical Model of the Atom 8. Periodic Properties of the Elements 9. Liquids, Solids, and Intermolecular Forces Solids and Modern Material

2: Chemistry: A Molecular Approach, 4th Edition

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Book Preface To the Student As you begin this course, I invite you to think about your reasons for enrolling in it. Why are you taking general chemistry? More generally, why are you pursuing a college education? If you are like most college students taking general chemistry, part of your answer is probably that this course is required for your major and that you are pursuing a college education so you can get a good job some day. While these are good reasons, I would like to suggest a better one. I think the primary reason for your education is to prepare you to live a good life. You should understand chemistry not for what it can get you but for what it can do to you. Understanding chemistry, I believe, is an important source of happiness and fulfillment. Understanding chemistry helps you to live life to its fullest for two basic reasons. The first is intrinsic: The second reason is extrinsic: In other words, understanding chemistry makes you a deeper and richer person and makes your country and the world a better place to live. These reasons have been the foundation of education from the very beginnings of civilization. How does chemistry help prepare you for a rich life and conscientious citizenship? Let me explain with two examples. My first one comes from the very first page of Chapter 1 of this book. There, I ask the following question: What is the most important idea in all of scientific knowledge? My answer to that question is this: That simple statement is the reason I love chemistry. We humans have been able to study the substances that compose the world around us and explain their behavior by reference to particles so small that they can hardly be imagined. If you have never realized the remarkable sensitivity of the world we can see to the world we cannot see, you have missed out on a fundamental truth about our universe. To have never encountered this truth is like never having read a play by Shakespeare or seen a sculpture by Michelangelo or, for that matter, like never having discovered that the world is round. It robs you of an amazing and unforgettable experience of the world and the human ability to understand it. My second example demonstrates how science literacy helps you to be a better citizen. Although I am largely sympathetic to the environmental movement, a lack of science literacy within some sectors of that movement, and the resulting anti-environmental backlash, creates confusion that impedes real progress and opens the door to what could be misinformed policies. For example, I have heard conservative pundits say that volcanoes emit more carbon dioxide the most significant greenhouse gas than does petroleum combustion. I have also heard a liberal environmentalist say that we have to stop using hairspray because it is causing holes in the ozone layer that will lead to global warming. Well, the claim about volcanoes emitting more carbon dioxide than petroleum combustion can be refuted by the basic tools you will learn to use in Chapter 4 of this book. As for hairspray depleting the ozone layer and thereby leading to global warming, the chlorofluorocarbons that deplete ozone have been banned from hairspray since 1978, and ozone depletion has nothing to do with global warming anyway. People with special interests or axes to grind can conveniently distort the truth before an ill-informed public, which is why we all need to be knowledgeable. So this is why I think you should take this course. Not just to satisfy the requirement for your major, and not just to get a good job some day, but to help you to lead a fuller life and to make the world a little better for everyone. I wish you the best as you embark on the journey to understand the world around you at the molecular level. The rewards are well worth the effort Download Ebook.

3: - Chemistry by Nivaldo J Tro

Free download Chemistry - A Molecular Approach (4th edition) written by Nivaldo J. Tro in pdf. published by Pearson Education, Inc. in Complex concepts, such as rate laws and the more difficult concepts of acids and bases among others, were broken down well and explained in helpful detail.

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Chemistry: A Molecular Approach, Third Edition is an innovative, pedagogically driven text that explains challenging concepts in a student-oriented manner. Nivaldo Tro creates a rigorous and accessible treatment of general chemistry in the context of relevance and the big picture.

Ads Book Preface As you begin this course, I invite you to think about your reasons for enrolling in it. Why are you taking general chemistry? More generally, why are you pursuing a college education? If you are like most college students taking general chemistry, part of your answer is probably that this course is required for your major and that you are pursuing a college education so you can get a good job some day. While these are good reasons, I would like to suggest a better one. I think the primary reason for your education is to prepare you to live a good life. You should understand chemistry not for what it can get you but for what it can do for you. Understanding chemistry, I believe, is an important source of happiness and fulfillment. Understanding chemistry helps you to live life to its fullest for two basic reasons. The first is intrinsic: The second reason is extrinsic: In other words, understanding chemistry makes you a deeper and richer person and makes your country and the world a better place to live. These reasons have been the foundation of education from the very beginnings of civilization. How does chemistry help prepare you for a rich life and conscientious citizenship? Let me explain with two examples. My first one comes from the very first page of Chapter 1 of this book. There, I ask the following question: What is the most important idea in all of scientific knowledge? My answer to that question is this: That simple statement is the reason I love chemistry. We humans have been able to study the substances that compose the world around us and explain their behavior by reference to particles so small that they can hardly be imagined. If you have never realized the remarkable sensitivity of the world we can see to the world we cannot, you have missed out on a fundamental truth about our universe. To have never encountered this truth is like never having read a play by Shakespeare or seen a sculpture by Michelangelo or, for that matter, like never having discovered that the world is round. It robs you of an amazing and unforgettable experience of the world and the human ability to understand it.

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