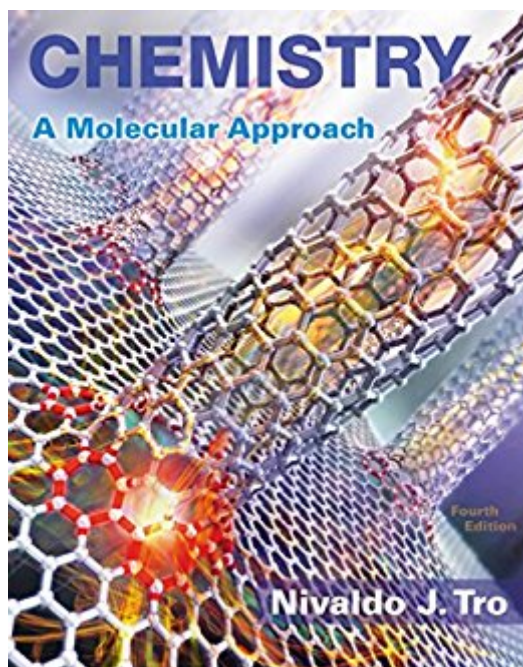


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Chemistry: A Molecular Approach



Synopsis

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value—this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. For courses in Chemistry. This package includes MasteringChemistry. **Building 21st Century Data Analysis and Problem-Solving Skills in Modern Chemistry** The Fourth Edition of Nivaldo Tro's *Chemistry: A Molecular Approach* reinforces students' 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 students 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. Tro's problem-solving approach are reinforced through digital, Interactive Worked Examples that provide students with an office-hour type of environment and expanded coverage on the latest developments in chemistry. New Key Concept Videos explain difficult concepts while new end-of-chapter problems including Group Work questions and Data Interpretation and Analysis questions engage students in applying their understanding of chemistry. The revision has been constructed to easily incorporate material for instructors and students to engage in Before, During, and After class activities. **Personalize Learning with MasteringChemistry** MasteringChemistry from Pearson is the leading online homework, tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful content. Instructors ensure students arrive ready to learn by assigning educationally effective content before class, and encourage critical thinking and retention with in-class resources such as Learning Catalytics. Students 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 student understanding and misconceptions. Mastering brings learning full circle by continuously adapting to each student and making learning more personal than ever—before, during, and after

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Customer Reviews

This is a new textbook for general chemistry. Yes, there a quite a number of general chemistry texts and they all cover roughly the same general material. They differ more in how they organize the material, illustrate it, and their method of helping the student develop a solid understanding and

command of this basic material. The student not only needs to learn the basic facts of chemistry, she needs to learn how to think about it so when she looks at the world, she can see and understand the issues as they relate to this vital science. Dr. Tro begins this book by explaining how the text was developed and provides instructions for the student on how to make the most of the book. I liked this a great deal. He starts the book by providing what he thinks is the most important scientific idea in all of human knowledge: "the properties of matter are determined by the properties of molecules and atoms". From there he builds all the principles taught in general chemistry. He also defines chemistry as: "the science that seeks to understand the behavior of matter by studying the behavior of atoms and molecules". Each chapter is organized in a similar fashion and a great deal of emphasis is placed on making the illustrations demonstrate a principle - a process - rather than an isolated picture. Tro also has interesting articles of chemistry in various fields in different chapters and he often introduces ideas with practical issues that will likely matter to the student. For review, at the end of each chapter he goes over the key concepts taught, the key equations and relationships discussed, and the key skills that the student is expected to have learned. He provides exercises to test one's mastery of the material that the student can answer for himself.

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