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Know It All Chemistry - Nivaldo Tro 2017-06-01

Chemistry can be a daunting subject for someone on the outside, that's exactly why Know It All Chemistry is here to show you the basics! As the central science that bridges biology and physics, chemistry explains the diversity of all things tangible at a molecular level. If you come to understand the inner workings of chemistry, you can understand everything, because chemistry is the science of matter -- its composition, structure, properties, and how it changes. Know It All Chemistry is your key to jumping into this massive subject. As you read through this

beautifully designed book, you'll learn why some things oxidize and others explode; why food is good to eat and coal is not. As you come to understand chemistry and know what reasonable expectations you can have of a product, and how to separate fact from fiction. Chemistry is the heart of cooking, it can keep you safe, and it explains why things work. This book brings the subject out of the lab and boils it down to its essential elements.

Chemistry in Focus - Nivaldo J. Tro 1998-07

What does matter look like at the molecular and atomic level? Why are leaves green? Why do

colored fabrics fade upon repeated exposure to sunlight? Why does a pencil leave a mark when dragged across a sheet of paper? All of these basic questions have molecular answers that teach and illustrate chemical principles. Nivaldo Tro introduces each concept with a thought experiment, then develops the chemical principles and concepts involved in a molecular understanding of the experiment. Once students have grasped the basic concepts, they are introduced to consumer applications and environmental problems related to the concepts. Mathematical aspects of chemistry are optional.

Chemistry: Structure and Properties, Global Edition - Nivaldo J. Tro 2015-04-02

The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook

products whilst you have your Bookshelf installed. For two-semester general chemistry courses

Bestselling author Nivaldo Tro has always believed “the behaviour of matter is determined by the properties of molecules and atoms” to be the most important discovery in scientific knowledge. This idea is the entire factor for his seminal new text—Chemistry: Structure and Properties. Dr. Tro emphasises the relationship between structure and properties, establishes a unique approach to teaching chemistry by presenting atomic and bonding theories early in the text, and stresses key themes throughout.

The book is organised to present chemistry as a logical, cohesive story from the microscopic to the macroscopic, so students can fully grasp the theories and framework behind the chemical facts. Every topic has been carefully crafted to convey to students that the relationship between structure and properties is the thread that weaves all of chemistry together. While developed independently of other Tro texts, Chemistry: Structure and Properties incorporates the author’s vivid writing style, chemical rigor, dynamic multi-level images, and tested features. His consistent conceptual focus and step-by-step problem-

solving framework encourages students to think through processes rather than simply memorise content. This program presents a better teaching and learning experience—for you and your students. Developed with a central theme and by a teaching community: As part of a community that teaches with the understanding that matter is composed of particles and the structure of those particles determines the properties of matter, Dr. Tro took great lengths in the text to ensure that everything from organisation, art, and pedagogy reinforce this theme. The result of this emphasis is that the topic order has been constructed to

make key connections earlier, stronger, and more often than the traditional approach. Linking conceptual understanding with problem-solving skills: Throughout each chapter, numerous Conceptual Connections encourage comprehension of the most complex concepts while a consistent step-by-step framework in the worked examples allows students to think logically through the problem-solving process. Visualising and understanding chemistry: Revolutionary multipart images illustrate and reinforce the theme of the text and allow students to see and experience the molecules responsible

for the structures and properties of matter.

Cambridge International AS and A Level
Chemistry Coursebook with CD-ROM - Lawrie

Ryan 2014-07-31

Fully revised and updated content matching the Cambridge International AS & A Level Chemistry syllabus (9701). Endorsed by Cambridge International Examinations, the Second edition of the AS/A Level Chemistry Coursebook comprehensively covers all the knowledge and skills students need for AS/A Level Chemistry 9701 (first examination 2016). Written by renowned experts in Chemistry, the text is written

in an accessible style with international learners in mind. The Coursebook is easy to navigate with colour-coded sections to differentiate between AS and A Level content. Self-assessment questions allow learners to track their progression and exam-style questions help learners to prepare thoroughly for their examinations. Contemporary contexts and applications are discussed throughout enhancing the relevance and interest for learners.

Chemistry - Nivaldo J. Tro 2016-01-06

For courses in Chemistry. Building 21st Century Data Analysis and Problem-Solving Skills in

Modern Chemistry 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. 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. Tro's problem-solving approach are reinforced through digital, Interactive Worked Examples that provide 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 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. Instructors ensure you 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(tm). 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. Note: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. Students, if interested in purchasing this title with MasteringChemistry, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson

representative for more information. If you would like to purchase both the physical text and MasteringChemistry, search for: 0134103971 / 9780134103976 Chemistry: A Molecular Approach Plus MasteringChemistry with eText -- Access Card Package. Package consists of: 0134112830 / 9780134112831 Chemistry: A Molecular Approach 0134126424 / 9780134126425 MasteringChemistry with Pearson eText -- ValuePack Access Card -- for Chemistry: A Molecular Approach

STUDYGUIDE FOR CHEMISTRY ES 97 -
Cram101 Textbook Reviews 2016-11-21

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780321979865. This item is printed on demand.

Modified Mastering Chemistry with Pearson Etext -- Access Card -- For Chemistry - Nivaldo Tro
2020-06-04

Chemistry - John McMurry 2014-12-31

NOTE: You are purchasing a standalone product; MasteringA&P does not come packaged with this content. If you would like to purchase both the physical text and MasteringA&P search for ISBN-10: 0321940873/ISBN-13: 9780321940872 . That package includes ISBN-10: 0321943171/ISBN-13: 9780321943170 and ISBN-10: 013389178X/ISBN-13: 9780133891782. For two-semester general chemistry courses (science majors). Make critical connections in chemistry clear and visible McMurry/Fay/Robinson's Chemistry , Seventh Edition, aims to help students understand the

connections between topics in general chemistry and why they matter. The Seventh Edition provides a concise and streamlined narrative that blends the quantitative and visual aspects of chemistry, demonstrates the connections between topics, and illustrates the application of chemistry to their lives and careers. New content offers a better bridge between organic and biochemistry and general chemistry content, and new and improved pedagogical features make the text a true teaching tool rather than just a reference book. New MasteringChemistry features include conceptual worked examples and integrated

Inquiry sections that help make critical connections clear and visible and increase students' understanding of chemistry. The Seventh Edition fully integrates the text with new MasteringChemistry content and functionality to support the learning process before, during, and after class. Also Available with MasteringChemistry (R) . 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 class.

Introductory Chemistry - Nivaldo J. Tro

2011-11-21

To succeed in introductory chemistry, you need to develop your problem-solving skills—but you'll also need to understand why these skills are important. *Introductory Chemistry, Fourth Edition* extends chemistry from the laboratory to your world, helping you learn chemistry by demonstrating how it is manifested in your daily life. Throughout, the Fourth Edition presents a new student-friendly, step-by-step problem-solving

approach that adds four steps to worked examples (Sort, Strategize, Solve, and Check).

This proven text continues to foster student success beyond the classroom with

MasteringChemistry®, the most advanced online tutorial and assessment program available. Note:

This is the standalone book, if you want the book/access card order the ISBN below:

0321741021 / 9780321741028 *Introductory*

Chemistry Plus MasteringChemistry with eText --

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0321687930 / 9780321687937 *Introductory*

Chemistry 032173002X / 9780321730022

MasteringChemistry with Pearson eText --
Valuepack Access Card -- for Introductory
Chemistry

Chemistry - Nivaldo J. Tro 2017-01-09

"Bestselling author Nivaldo Tro's premise is that matter is particulate—it is composed of molecules; the structure of those particles determines the properties of matter. This core idea is the inspiration for his seminal text—*Chemistry: Structure and Properties*. Dr. Tro emphasizes the relationship between structure and properties, establishes a unique approach to teaching chemistry by presenting atomic and bonding

theories early in the course, and stresses key concepts and themes in text, images, and interactive media. The book is organized to present chemistry as a logical, cohesive story from the microscopic to the macroscopic, so students can fully grasp the theories and framework behind the chemical facts. Each topic is carefully crafted to convey to students that the relationship between structure and properties is the thread that weaves all of chemistry together."

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CHEMISTRY - NIVALDO. TRO 2015

Studyguide for Chemistry: Structure and Properties by Tro, Nivaldo J., ISBN 9780321869968 - Cram101 Textbook Reviews 2016-05-07

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780321869968. This item is printed on demand.

Chemistry: A Molecular Approach, Global Edition -

Nivaldo J. Tro 2020-10-22

For courses in chemistry. Actively engage students to become expert problem solvers and critical thinkers Nivaldo Tro's Chemistry: A Molecular Approach presents chemistry visually through multi-level images—macroscopic, molecular, and symbolic representations – to help students see the connections between the world they see around them, the atoms and molecules that compose the world, and the formulas they write down on paper. Interactive, digital versions of selected worked examples instruct students how to break down problems using Tro's unique

“Sort, Strategize, Solve, and Check” technique and then complete a step in the example. To build conceptual understanding, Dr. Tro employs an active learning approach through interactive media that requires students to pause during videos to ensure they understand before continuing. The 5th Edition pairs digital, pedagogical innovation with insights from learning design and educational research to create an active, integrated, and easy-to-use framework. The new edition actively engages students in becoming expert problem solvers and makes it possible for professors to teach the general

chemistry course easily and effectively.

Selected Solutions Manual for Chemistry - Nivaldo J. Tro 2017-02-16

The selected solution manual for students contains complete, step-by-step solutions to selected odd-numbered end-of- chapter problems.

Study Guide for Chemistry, Structure and Properties - Nivaldo J. Tro 2014

Solutions Manual - Nivaldo J.. Tro 2009-05-01

Chemistry Modified Mastering Chemistry With Pearson Etext Access Code - Nivaldo J. Tro 2017

DIGITAL UPDATE available for Fall 2020 classes

The Pearson eText and Mastering have been updated to provide new author-written content that actively engages students every step of the way in becoming expert problem solvers. For courses in two-semester general chemistry. An atoms-first approach that actively engages students in learning chemistry and becoming expert problem solvers With Chemistry: Structure and Properties , author Nivaldo Tro incorporates his engaging and precise narrative to tell the story of chemistry with an atoms-first approach. This approach emphasizes that matter is particulate --

composed of molecules -- and the structure of those particles determines the properties of matter. The relationship of structure affecting properties is the thread that weaves all of chemistry together, and this theme is applied to all aspects of the text, from content and organization to art and pedagogy. The book presents chemistry as a logical, cohesive story from the microscopic to the macroscopic, so students can fully grasp the theories and framework behind the chemical facts. Personalize learning with Modified Mastering Chemistry By combining trusted author content with digital tools

and a flexible platform, Mastering personalizes the learning experience and improves results for each student. Mastering Chemistry provides an extension of learning, allowing students a platform to practice, learn, and apply knowledge outside of the classroom. You are purchasing an access card only. Before purchasing, check with your instructor to confirm the correct ISBN. Several versions of the MyLab(TM) and Mastering(TM) platforms exist for each title, and registrations are not transferable. To register for and use MyLab or Mastering, you may also need a Course ID, which your instructor will provide. If purchasing or

renting from companies other than Pearson, the access codes for the Mastering platform may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. 0134565614 / 9780134565613 MODIFIED MASTERING CHEMISTRY WITH PEARSON ETEXT -- STANDALONE ACCESS CARD -- FOR CHEMISTRY: STRUCTURE AND PROPERTIES, 2/e
Van de Graaff's Photographic Atlas for the Biology Laboratory - Kent Marshall Van De Graaff 2013
A Photographic Atlas for the Biology Laboratory,

Seventh Edition by Byron J. Adams and John L. Crawley is a full-color photographic atlas that provides a balanced visual representation of the diversity of biological organisms. It is designed to accompany any biology textbook or laboratory manual.

General Chemistry Laboratory Notebook - David Hanson 2000-10

This 100-page lab notebook is essential in today's lab.

30-Second Chemistry - Nivaldo Tro 2020-04-07

30-Second Chemistry presents the 50 most important ideas in the science of matter – its

composition, structure, properties and how it changes. As the central science that bridges biology and physics, chemistry explains the diversity of all things tangible at a molecular level. Understand chemistry, and you'll know why some things oxidize and others explode; why food is good to eat and coal is not. 30-Second Chemistry breaks the subject down into 50 bitesize elements that help us understand the nature of matter, including: • Atoms, molecules and compounds • States of matter • Chemical reactions and energetics • Inorganic chemistry • Organic chemistry • Biochemistry • Nuclear chemistry

Chemistry is the heart of cooking, it can keep you safe, and it explains why things work. This book brings the subject out of the lab and boils it down to its essential elements – in just 30 seconds. If you like this, you might also be interested in 30-Second Elements, 30-Second Physics and 30-Second Biology.

Chemistry - Nivaldo Tro 2017-01-04

"Bestselling author Nivaldo Tro's premise is that matter is particulate—it is composed of molecules; the structure of those particles determines the properties of matter. This core idea is the inspiration for his seminal text—*Chemistry:*

Structure and Properties. Dr. Tro emphasizes the relationship between structure and properties, establishes a unique approach to teaching chemistry by presenting atomic and bonding theories early in the course, and stresses key concepts and themes in text, images, and interactive media. The book is organized to present chemistry as a logical, cohesive story from the microscopic to the macroscopic, so students can fully grasp the theories and framework behind the chemical facts. Each topic is carefully crafted to convey to students that the relationship between structure and properties is

the thread that weaves all of chemistry together."-

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Chemistry - Nivaldo J. Tro 2017-01-06

Chemistry - Nivaldo J. Tro 2015

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for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the

seller prior to purchase.

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His consistent conceptual focus and step-by-step problem-solving framework encourages you to think through processes rather than simply memorize content. Interactive media within MasteringChemistry® complements the book's problem-solving approach, thus creating a comprehensive program that enables you to learn both in and out of the classroom. This program presents a better teaching and learning experience-for you. Personalized learning with MasteringChemistry: This online homework, tutorial, and assessment program is designed to improve results by helping you quickly master

concepts. You'll benefit from self-paced tutorials, featuring specific wrong-answer feedback and hints that emulate the office-hour experience. Developed with a central theme and by a teaching community: As part of a community that teaches with the understanding that matter is composed of particles and the structure of those particles determines the properties of matter, Dr. Tro took great lengths in the text to ensure that everything from organization, art, and pedagogy reinforce this theme. The result of this emphasis is that the topic order has been constructed to make key connections earlier, stronger, and more

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standalone product; MasteringChemistry does not come packaged with this content. If you would like to purchase both the physical text and MasteringChemistry search for ISBN-10: 0321729730/ISBN-13: 9780321729736. That package includes ISBN-10: 0321834682/ISBN-13: 9780321834683 and ISBN-10: 0321934105/ISBN-13: 9780321934109. MasteringChemistry is not a self-paced technology and should only be purchased when required by an instructor.

Studyguide for Chemistry: Structure and Properties by Tro, Nivaldo J., ISBN

9780133884517 - Cram101 Textbook

Reviews 2016-05-01

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780133884517. This item is printed on demand.

Chemistry - Nivaldo J. Tro 2015

Studyguide for Chemistry: Structure and

Properties by Tro, Nivaldo J., ISBN

9780321729736 - Cram101 Textbook

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9780321729736. This item is printed on demand.

Study Guide for Chemistry - Nivaldo J. Tro

2017-01-27

This Study Guide was written specifically to assist students using Structure and Properties. It presents the major concepts, theories, and applications discussed in the text in a comprehensive and accessible manner for students. It contains learning objectives, chapter summaries and outlines, as well as examples, self tests and concept questions.

**Solutions Manual - Kathleen Thrush Shaginaw
2015**

Solutions Manual for Chemistry - Nivaldo J.
Tro 2013-12-30

The solution manual for students contains complete, step-by-step solutions to end-of-chapter problems.

Chemistry - Nivaldo J. Tro 2014-01-06

NOTE: This edition features the exact same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value for your students--this format costs 35% less than a new textbook. Before you purchase, 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. XXXXXXXXXXXXXXXXXXXXXXXXXXXX For two-semester general chemistry courses

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multipart images illustrate and reinforce the theme of the text and allows you to see and experience the molecules responsible for the structures and properties of matter.

Chemistry - Nivaldo J. Tro 2017-01-11

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made outside of Pearson. If purchasing or renting from companies other than Pearson, the access codes for Pearson's MyLab & Mastering products may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. For courses in two-semester general chemistry. This package includes Mastering Chemistry . Tells the story of chemistry in a unified and thematic way while building 21st century skills. Bestselling author Nivaldo Tro's premise is that matter is particulate - it is composed of molecules; the structure of those particles determines the properties of

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students that the relationship between structure and properties is the thread that weaves all of chemistry together. The 2nd Edition works seamlessly with Mastering(tm) Chemistry and new eText 2.0 to engage students in active learning and the world of chemistry. Dr. Tro helps readers build 21st century skills, engaging them through new end-of-chapter questions--Data Interpretation and Analysis questions present real data in real life situations and ask students to analyze that data, and Questions for Group Work foster collaborative learning and encourage students to work together as a team to solve

problems. Dr. Tro also engages students through the power of video, animations, and real-time assessment with new and expanded interactive media. New Key Concept Videos, newly interactive Conceptual Connections and Self-Assessment Quizzes, and Interactive Worked Examples are embedded in the new eText 2.0 version of the book, enabling students to make connections that they cannot make by simply reading a static page. Personalize learning with Mastering Chemistry. Mastering(tm) Chemistry is the leading online homework, tutorial, and assessment system, designed to improve results

by engaging students with powerful content. The enhanced eText 2.0 and Mastering Chemistry work with the book to provide seamless and tightly integrated videos and other rich media and assessment throughout the course. Instructors can assign interactive media before class to engage students and ensure they arrive ready to learn. Students further master concepts through book-specific Mastering Chemistry assignments, which provide hints and answer-specific feedback that build problem-solving skills. With Learning Catalytics(tm) instructors can expand on key concepts and encourage student engagement

during lecture through questions answered individually or in pairs and groups. Mastering Chemistry now provides students with the new General Chemistry Primer for remediation of chemistry math skills needed in the general chemistry course. 0134436520 / 9780134436524
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Chemistry: Structure and Properties, 2/e
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Chemistry - Nivaldo J. Tro 2014-03-03

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CHEMISTRY - NIVALDO. TRO 2015

Chemistry - Nivaldo J. Tro 2019-02-25

This innovative, pedagogically driven text explains
difficult concepts in a student-oriented manner.

The book offers a rigorous and accessible
treatment of general chemistry in the context of
relevance. Chemistry is presented visually
through multi-level images--macroscopic,
molecular and symbolic representations--helping
students see the connections among the formulas
(symbolic), the world around them (macroscopic),

and the atoms and molecules that make up the world (molecular). KEY TOPICS: Units of Measurement for Physical and Chemical Change; Atoms and Elements; Molecules, Compounds, and Nomenclature; Chemical Reactions and Stoichiometry; Gases; Thermochemistry; The Quantum-Mechanical Model of the Atom; Periodic Properties of the Elements; Chemical Bonding I: Lewis Theory; Chemical Bonding II: Molecular Shapes, Valence Bond Theory, and Molecular Orbital Theory; Liquids, Solids, and Intermolecular Forces; Solutions; Chemical Kinetics; Chemical

Equilibrium; Acids and Bases; Aqueous Ionic Equilibrium; Gibbs Energy and Thermodynamics; Electrochemistry; Radioactivity and Nuclear Chemistry; Organic Chemistry I: Structures; Organic Chemistry II: Reactions; Biochemistry; Chemistry of the Nonmetals; Metals and Metallurgy; Transition Metals and Coordination Compounds MARKET: Appropriate for General Chemistry (2 - Semester) courses.

Chemistry + Solutions Manual + Modified Masteringchemistry With Pearson Etext - Nivaldo J. Tro 2014-06-09

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for Chemistry: Structure and Properties

Principles of Chemistry: Pearson New
International Edition - Nivaldo J. Tro 2013-08-29
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Adapted from Nivaldo J. Tro's best-selling general
chemistry book, Principles of Chemistry: A
Molecular Approach focuses exclusively on the
core concepts of general chemistry without
sacrificing depth or relevance. Tro's
unprecedented two- and three-column problem-

solving approach is used throughout to give students sufficient practice in this fundamental skill. A unique integration of macroscopic, molecular, and symbolic illustrations helps students to visualize the various dimensions of chemistry; Tro's engaging writing style captures student's attention with relevant applications. The Second Edition offers a wealth of new and revised problems, approximately 50 new conceptual connections, an updated art program throughout, and is available with MasteringChemistry®, the most advanced online tutorial and assessment program available. This

package contains: Principles of Chemistry: A Molecular Approach, Second Edition
Chemistry - Nivaldo J. Tro 2014-01-02
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general chemistry courses Bestselling author Niva Tro has always believed "the behavior of matter is determined by the properties of molecules and atoms" to be the most important discovery in scientific knowledge. This idea is the entire organizing factor for his seminal new text-- Chemistry: Structure and Properties. Dr. Tro emphasizes the relationship between structure and properties, establishes a unique atoms-first approach to teaching chemistry by presenting atomic and bonding theories early in the text, and stresses key themes throughout. The book is organized to present chemistry as a logical,

cohesive story from the microscopic to the macroscopic, so students can fully grasp the theories and framework behind the chemical facts. Every topic has been carefully crafted to illustrate that the relationship between structure and properties is the thread that weaves all of chemistry together. While developed independently of other Tro texts, *Chemistry: Structure and Properties* incorporates the author's vivid writing style, chemical rigor, dynamic multi-level images, and tested features. His consistent conceptual focus and step-by-step problem-solving framework encourages you to think

through processes rather than simply memorize content. Interactive media within MasteringChemistry® complements the book's problem-solving approach, thus creating a comprehensive program that enables you to learn both in and out of the classroom. This program presents a better teaching and learning experience--for you. Personalized learning with MasteringChemistry: This online homework, tutorial, and assessment program is designed to improve results by helping you quickly master concepts. You'll benefit from self-paced tutorials, featuring specific wrong-answer feedback and

hints that emulate the office-hour experience. Developed with a central theme and by a teaching community: As part of a community that teaches with the understanding that matter is composed of particles and the structure of those particles determines the properties of matter, Dr. Tro took great lengths in the text to ensure that everything from organization, art, and pedagogy reinforce this theme. The result of this emphasis is that the topic order has been constructed to make key connections earlier, stronger, and more often than the traditional approach. Linking conceptual understanding with problem-solving

skills: Throughout each chapter, numerous Conceptual Connections encourage comprehension of the most complex concepts while a consistent step-by-step framework in the worked examples allows you to think logically through the problem-solving process. Visualizing and understanding chemistry: Revolutionary multipart images illustrate and reinforce the theme of the text and allows you to see and experience the molecules responsible for the structures and properties of matter. 0321729730 / 9780321729736 Chemistry: Structure and Properties Plus MasteringChemistry with eText --

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