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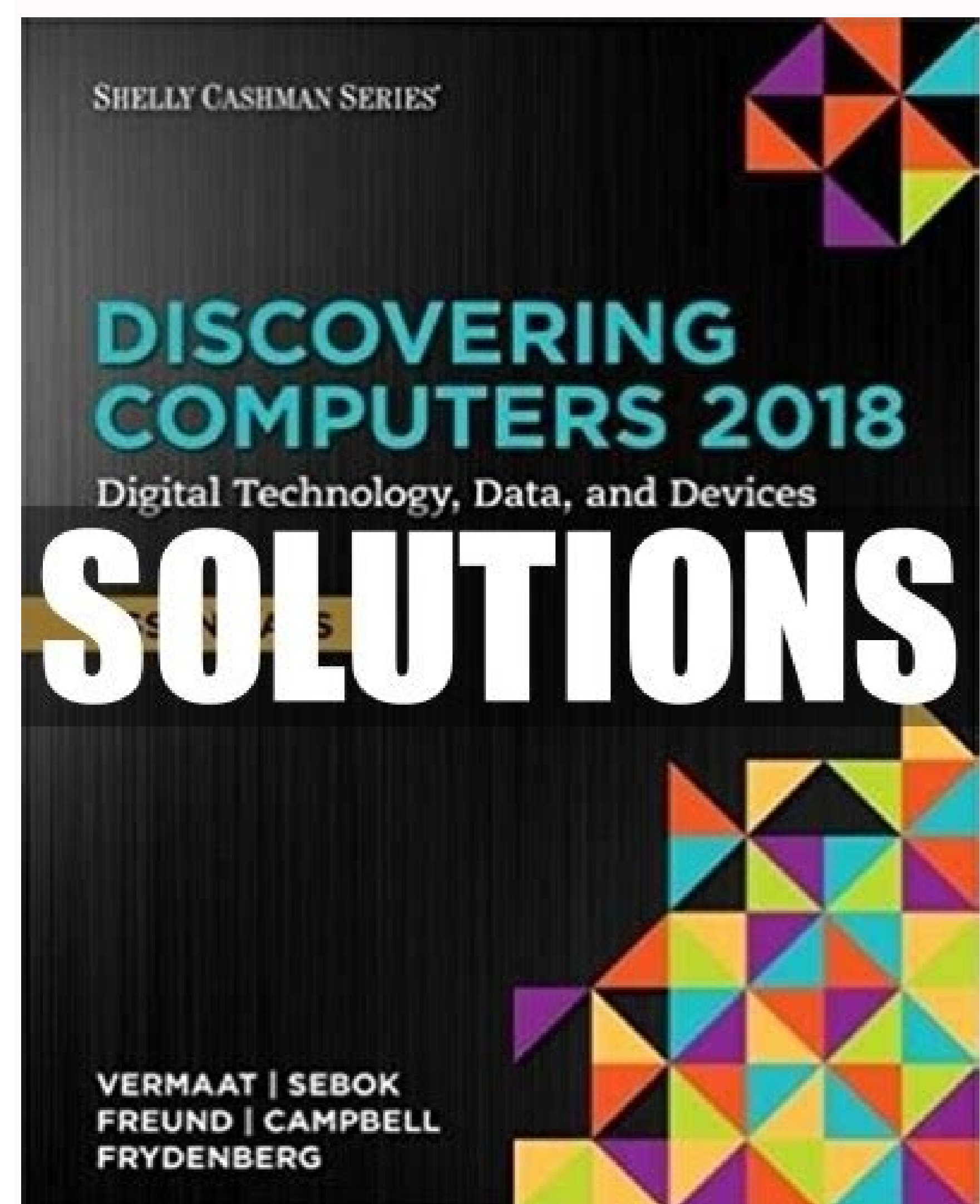
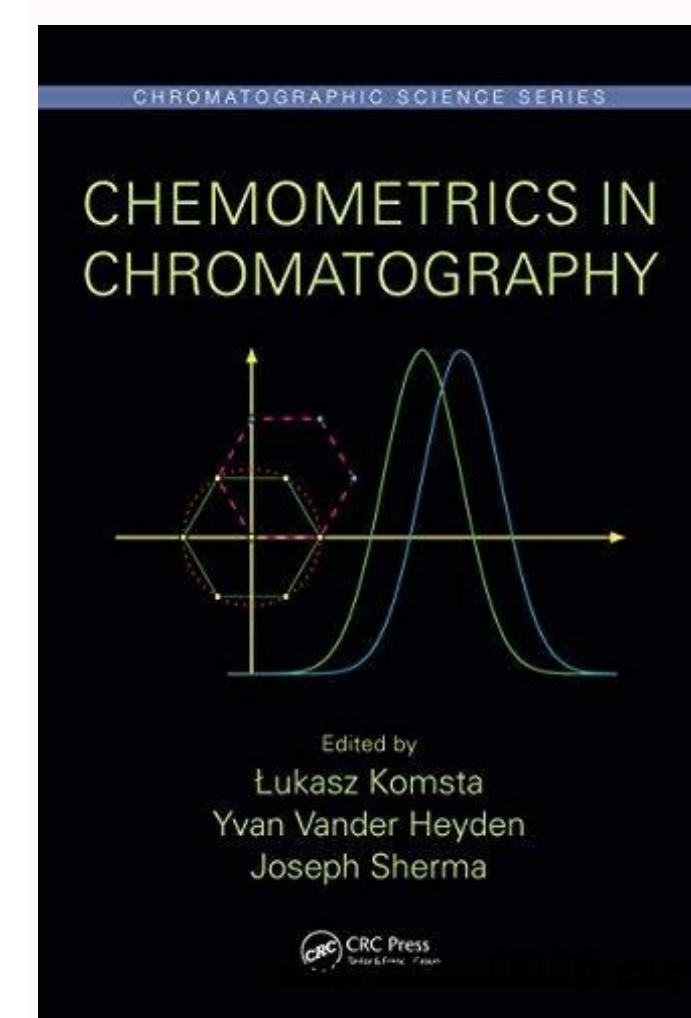
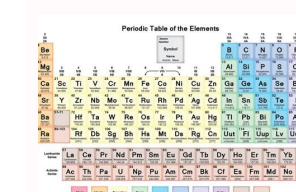
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# General Chemistry: ATOMS FIRST

Young ■ Vining ■ Day ■ Botch

|                               |                                 |                              |                               |                                 |
|-------------------------------|---------------------------------|------------------------------|-------------------------------|---------------------------------|
| 28<br>Co<br>Cobalt<br>58.933  | 29<br>Ni<br>Nickel<br>58.693    | 30<br>Cu<br>Copper<br>63.546 | 31<br>Zn<br>Zinc<br>65.39     | 32<br>Ga<br>Gallium<br>69.723   |
| 45<br>Rh<br>Rhodium<br>102.91 | 46<br>Pd<br>Palladium<br>106.42 | 47<br>Ag<br>Silver<br>107.87 | 48<br>Cd<br>Cadmium<br>112.41 | 49<br>In<br>Indium<br>114.818   |
| 76<br>Ir<br>Iridium<br>222    | 77<br>Pt<br>Platinum<br>195.084 | 78<br>Au<br>Gold<br>196.967  | 79<br>Hg<br>Mercury<br>200.59 | 80<br>Tl<br>Thallium<br>204.387 |



If you need help getting started, read the tutorials on the TestGen site. Simple user interface allows for quick and easy access to Assignments, eText (also available offline with an iPad app), and Results as well as more options for course customization. The text's robust technology program includes new Pause/Predict videos, new simulations and animations, and tutorials written specifically to teach with an atoms-first approach in MasteringChemistry. Connect with us to learn more. You can try to sign in using VPN or TOR browser Enable VPN General Chemistry: Atoms First with MasteringChemistry® starts from the building blocks of chemistry, the atom, allowing the authors to tell a cohesive story that progresses logically through molecules and compounds to help students intuitively follow complex concepts more logically. Streamlined illustrations — Illustrations are seamlessly woven into the narrative and in many places figure captions are integrated into the figure itself. The effect is to make the text flow naturally with the figures and thereby entice students to spend more time understanding those figures. Worked Concept Examples emphasize the conceptual nature of problem solving in chemistry and often incorporate molecular illustrations. Many Worked Examples are followed by Worked Concept Examples. Concept Problems are non-numerical problems that test the understanding of principles rather than the ability to put numbers into a formula. Please wait... NEW! All MasteringChemistry tutorials have been evaluated and in many cases edited, revised or rewritten by an advisory board of expert chemists all teaching with the atoms-first approach to ensure the reinforcement of this approach. Communication Tools, including Email, Chat, Discussion Boards, and ClassLive Whiteboard can be used to foster collaboration, class participation, and group work. and renamed from Interlude. This unified thread of ideas helps students build a better foundation and ultimately gain a deeper understanding of chemical concepts. Students can more easily understand the microscopic-to-macroscopic connections between unobservable atoms and the observable behavior of matter in daily life, and are brought immediately into real chemistry—instead of being forced to memorize facts. Worked Examples provide a consistent problem-solving strategy using the Strategy — Solution layout typically followed by two to three problems for students to practice. NEW! Looking Ahead reinforces the logical flow of the atoms-first approach to help link concepts more logically together by introducing related concepts that will be discussed in greater detail in subsequent chapters. NEW! FYI have been completely redesigned, updated. NEW! All tutorials, end-of-chapter questions, reading quizzes, and test bank questions have been tagged to learning outcomes. New to MasteringChemistry. NEW! 15 Pause and Predict Video Quizzes bring chemistry to life with lab demonstrations illustrating key topics in general chemistry. Instructor Manual (Download Only) for the Laboratory Manual for General Chemistry: Atoms First, 2nd Edition Mastering Chemistry without Pearson eText -- Instructor Access Code Show Order Information for Pearson offers affordable and accessible purchase options to meet the needs of your students. Reflecting a true atoms first perspective, the Second Edition features experienced atoms-first authors, incorporates recommendations from a panel of atoms-first experts, and follows historical beliefs in teaching chemistry concepts based and real experimental data first. MasteringChemistry® The Mastering platform is the most effective and widely used online homework, tutorial, and assessment system for the sciences. Chapter 0 - Chemical Tools: Experimentation and Measurement Chapter 1 - The Structure and Stability of Atoms Chapter 2 - Periodicity and the Electronic Structure Atomic Structure Chapter 3 - Atoms and Ionic Bonds Chapter 4 - Atoms and Covalent Bonds Chapter 5 - Covalent Bonds and Molecular Structure Chapter 6 - Chemical Arithmetic: Stoichiometry Chapter 7 -

Reactions in Aqueous Solution Chapter 8 - Thermochemistry: Chemical Energy Chapter 9 - Gases: Their Properties and Behavior Chapter 10 - Liquids, Solids, and Phase Changes Chapter 11 - Solutions and Their Properties Chapter 12 - The Rates and Mechanisms of Chemical Reactions Chapter 13 - The Extent of Chemical Reactions Chapter 14 - Aqueous Equilibria: Acids and Bases Chapter 15 - Applications of Aqueous Equilibria Chapter 16 - Thermodynamics: Entropy, Free Energy, and Equilibrium Chapter 17 - Electrochemistry Chapter 18 - Hydrogen, Oxygen, and Water Chapter 19 - The Main-Group Elements Chapter 20 - Transition Elements and Coordination Chemistry Chapter 21 - Metals and Solid-State Materials Chapter 22 - Nuclear Chemistry Chapter 23 - Organic and Biological Chemistry Format On-line Supplement ISBN-13: 9780321813046 Availability Important: To use the test banks below, you must download the TestGen software from the TestGen website. Chapter 22 provides complete coverage of Nuclear Chemistry. NEW! A dedicated atoms-first lab manual written by authors teaching with this approach reflecting the changes needed to successfully integrate the lab is available. Ion formation and ionic bonding are discussed in Chapter 3, followed by covalent bonding and the structures of molecules in Chapter 4 and Chapter 5. Savvas Learning Company is a trademark of Savvas Learning Company LLC. NEW! Organization of Table of Contents starting with Chapter 0 with key changes in Chapter 2 to reflect the atoms-first approach. Error code: No available domains were found It seems the domains have been blocked by your Internet Provider. NEW "Looking Ahead..." reinforces the logical flow of the atoms-first approach to help link concepts more logically together, Chemical concepts are presented with quantitative examples to help students make the connection between chemical reasoning and math. Ballpark Checks follow many of the worked examples to reinforce students' conceptual understanding of the concept they have just expressed numerically in the worked example Design and Illustration Program: McMurry/Fay's design uniquely integrates explanatory narrative with key principles by connecting words, numbers, and graphics together. The overall number of algorithmic and randomized problems has also been increased for the new edition. NEW! 10 PhET tutorials have been developed around interactive applets that foster conceptual understanding and active learning. This approach distinguishes this text in the market based whereby other authors teach theory first, followed by experimental data. NEW! Key Equations have been added to the end of each chapter with accompanying section references. Problem Solving and Conceptualization: Numerous example types are incorporated throughout the text to help build students problem-solving skills and their conceptual understanding of chemistry. Atoms-First Organization: This approach makes it possible to tell a cohesive story about chemistry that follows an intuitive logic in progressing from the simplest building blocks to successively more complex concepts. In addition to the above features, MasteringChemistry New Design is now available and offers: Seamless integration with Blackboard Learn. Chapters 0-2 start at the logical beginning of the chemical story by discussing atoms-their history, stability, electronic structure, and consequent periodicity. Student registration offers temporary access, allowing students to access their Mastering course materials from day one but defer payment for up to 17 days while they are waiting on financial aid. NEW! A subset of end-of-chapter questions has been enhanced with hints and feedback to provide scaffolded support as students move from robust tutorials to doing end-of-chapter and test questions on their own. NEW! Multiple-choice Reading Questions are provided for each chapter, making it easy to hold students accountable for doing assigned readings before lecture. Stoichiometric mass relationships are introduced in Chapters 6. After the foundation has been set in Chapters 1-6, Chapter 7 follows with chemical reactions in aqueous solution A brief introduction of nuclear chemistry in Chapter 2 is a unique feature that provides students with an early understanding of relevant applications of the atom. It delivers self-paced tutorials that focus on your course objectives, provide individualized coaching, and respond to each student's progress. McMurry & Fay ©2014 | Pearson McMurry & Fay ©2014 | Pearson Format Website ISBN-13: 9780321809278 Online purchase price \$79.99 Students, buy access Availability McMurry & Fay ©2014 | Pearson Format Website ISBN-13: 9780321902962 Online purchase price \$79.99 Students, buy access Availability McMurry & Fay ©2014 | Pearson Format Website ISBN-13: 9780321903471 Online purchase price \$124.99 Students, buy access Availability McMurry & Fay ©2009 | Pearson Format Access Code Card ISBN-13: 9780321903587 Suggested retail price \$153.32 Availability McMurry & Fay ©2014 | Pearson | 1104 pp Format Unbound (Saleable) ISBN-13: 9780321813039 Suggested retail price \$219.99 Availability McMurry & Fay ©2014 | Pearson | 1104 pp Format Cloth ISBN-13: 9780321809261 Suggested retail price \$319.99 Availability General Chemistry (2 - Semester) (Chemistry) Students are asked to predict the outcome of experiments as they watch the videos; a set of multiple-choice questions challenges students to apply the concepts from the video to related scenarios. Topics include acid-base solutions, balancing chemical equations, and molecular polarity. Brief margin notes under the heading "Remember..." whose purpose is to jog a reader's memory about important topics from previous chapters that help in understanding the new topic. Using a Blackboard Building Block, this integration delivers streamlined access to your customizable content and highly personalized study paths. responsive learning tools, and real-time evaluation and diagnostics within the context of Blackboard Learn. NEW! Approximately 500 end-of-chapter questions are new or revised, and are supported by the tutorial questions in MasteringChemistry. Checking available domains. K12 Educators: Contact your Savvas Learning Company Account General Manager for purchase options. The Mastering system helps instructors maximize class time with easy-to-assign, customizable, and automatically graded assessments that motivate students to learn outside of class and arrive prepared for lecture or lab. Improved registration experience that provides a single point of access for instructors and students who are teaching and learning with multiple Mastering courses. Instant Access ISBNs are for individuals purchasing with credit cards or PayPal. Periodicity is a major theme incorporated throughout the text to help students better predict and understand chemical properties and their reactions.

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