Chapter 14 Chemistry Study Guide Answers

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the image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst carbon nanotubes are a recently discovered allotrope of carbon three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane ch4 from which nanotubes and buckyballs can be made the element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet the study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

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a self study guide to the principles of organic chemistry key concepts reaction mechanisms and practice questions for the beginner will help students new to organic chemistry grasp the key concepts of the subject quickly and easily as well as build a strong foundation for future study

starting with the definition of atom the author explains molecules electronic configuration bonding hydrocarbons polar reaction mechanisms stereochemistry reaction varieties organic spectroscopy aromaticity and aromatic reactions biomolecules organic polymers and a synthetic approach to organic compounds the over one hundred diagrams and charts contained in this volume will help students visualize the structures and bonds as they read the text and make the logic of organic chemistry clear and easily understood each chapter ends with a list of frequently asked questions and answers followed by additional practice problems answers are included in the appendix

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the study guide reflects the unique problem solving approach taken by the chemical principles text the new edition of the study guide includes many new worked out examples

in order to fully understand any subject the fundamentals must be understood and kept in the back of the mind organic chemistry is one of the most difficult subjects a college student can take especially if they are not a chemistry major a lot goes into the fundamentals of the subject that is why an organic chemistry fundamentals book can be so helpful to a student when studying the material if the student discovers they do not understand something they can reference the book and continue with studying in no time at all having a reference book is the key to success in an organic chemistry class

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