

Intermolecular Forces Notes

Section 2

What is the Lewis Dot Structure for Carbon? Based on this Lewis Dot Structure, how many electrons can Carbon bond with?



Carbon only has two valence electrons that are represented available for bonding. So, carbon should only be able to bond with TWO atoms.

So how do we explain the chemical CH_4 ? Two theories: (1) Valence Bond Theory (2) Molecular Orbital Theory

Valence Bond Theory (VBT Theory)

It is it carbon can hybridize, meaning they mix together.

Orbital Diagram of Carbon:



Here, all 2s orbitals and 2 p orbitals have hybridized. The orbitals sp hybridization.

Types of hybridization: (1) sp (2) sp² (3) sp³

"A "connection" can be a BOND (line) or a LONE PAIR (2 dots)

Practice Problem:

What type of hybridization occurs in the molecule PF_3 ?



Since the molecule has THREE connections around P, it's sp³ hybridization.



Methane: CH_4

(2) Methane: CH_4

Practice Problem:

What type of hybridization, if any, occurs in the following molecules?

(1) BF_3

(2) BCl_3



sp² around B



sp² around B

Valence Bond Theory includes a trick

A single bond is called a sigma bond. Its symbol is σ.

A double bond is 2 sigma & 2 pi bonds. Its symbol is π.

A triple bond contains 1 sigma and 2 pi bonds.



Practice Problem:

How many sigma bonds are in this molecule of acetone? How many pi bonds?

3 sigma
1 pi



Practice Problem:

Use valence bond theory to describe the bonding in N_2 .



Each nitrogen has sp hybridization.
There is 1 sigma & 2 pi bonds.

Holt Chemistry Answer Key Section Intermolecular Forces

Eugene Meyer



Holt Chemistry Answer Key Section Intermolecular Forces:

Holt Chemistry Ralph Thomas Myers, 2004 **Principles of Modern Chemistry** David W. Oxtoby, H. Pat Gillis, Laurie J. Butler, 2016-01-01 Long considered the standard for honors and high level mainstream general chemistry courses **PRINCIPLES OF MODERN CHEMISTRY** continues to set the standard as the most modern rigorous and chemically and mathematically accurate text on the market This authoritative text features an atoms first approach and thoroughly revised chapters on Quantum Mechanics and Molecular Structure Chapter 6 Electrochemistry Chapter 17 and Molecular Spectroscopy and Photochemistry Chapter 20 In addition the text utilizes mathematically accurate and artistic atomic and molecular orbital art and is student friendly without compromising its rigor End of chapter study aids focus on only the most important key objectives equations and concepts making it easier for students to locate chapter content while applications to a wide range of disciplines such as biology chemical engineering biochemistry and medicine deepen students understanding of the relevance of chemistry beyond the classroom **Host-Guest Chemistry** Brian D. Wagner, 2020-10-26 This textbook addresses the chemical and physicochemical principles of supramolecular host guest chemistry in solution It covers the thermodynamics and dynamics of inclusion and highlights several types of organic hosts Various applications of host guest chemistry in analytical and environmental chemistry as well as pharmaceutical and chemical industry demonstrate the versatile usability of molecular cages *Class 11-12 Chemistry MCQ (Multiple Choice Questions)* Arshad Iqbal, 2019-05-17 The Class 11 12 Chemistry Multiple Choice Questions MCQ Quiz with Answers PDF College Chemistry MCQ PDF Download Quiz Questions Chapter 1 6 Practice Tests with Answer Key 11th 12th Grade Chemistry Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Class 11 12 Chemistry MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Class 11 12 Chemistry MCQ PDF book helps to practice test questions from exam prep notes The Class 11 12 Chemistry MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Class 11 12 Chemistry Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters atomic structure basic chemistry chemical bonding chemistry experimental techniques gases liquids and solids tests for college and university revision guide Class 11 12 Chemistry Quiz Questions and Answers PDF free download eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The book Grade 11 12 Chemistry MCQs Chapter 1 6 PDF includes college question papers to review practice tests for exams Class 11 12 Chemistry Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET MCAT GRE GMAT SAT ACT competitive exam College Chemistry Mock Tests Chapter 1 6 eBook covers problem solving exam tests from chemistry textbook and practical eBook chapter wise as Chapter 1 Atomic Structure MCQ Chapter 2 Basic Chemistry MCQ Chapter 3 Chemical Bonding MCQ Chapter 4 Experimental Techniques MCQ Chapter 5 Gases MCQ Chapter 6 Liquids and Solids MCQ

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Molecular Driving Forces Ken Dill, Sarina Bromberg, 2010-10-21

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Introduction to Applied Colloid and Surface Chemistry Georgios M. Kontogeorgis, Soren Kil, 2016-03-28 Colloid and Surface Chemistry is a subject of immense importance and implications both to our everyday life and numerous industrial sectors ranging from coatings and materials to medicine and biotechnology How do detergents really clean Why can't we just use water Why is milk milky Why do we use eggs so often for

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Education ,1972 *Resources in Education* ,1972-10 *Introduction to Modern Chemistry: Student Manual* Eugene Meyer,1979 **Nano Design for Smart Gels** Rebeca Bacani,Fabiane Trindade,Mario Jose Politi,Eduardo Rezende Triboni,2019-07-26 Nano Design for Smart Gels addresses the formation and application of technological gels and how nanostructural prospects are fundamental to gelling Topics focus on the classification of gels based on small molecules and polymer gellers biogels stimulation conditions topological thermodynamic and kinetic aspects and characterization techniques The book outlines structure and characterization concepts in order to provide pragmatic tools for the design and tailoring of new functional gel architectures It provides an important source for readers and researchers who are currently or may soon be in research with gels presenting an overview of fundamental topics Highlights the building blocks that make up the main functional groups that result in gelator compounds Provides an accessible source to the most common responses of gels classified in their functional groups Outlines major characterization techniques showing how they can be combined

Environmental Chemistry Jorge G. Ibanez,Margarita Hernandez-Esparza,Carmen Doria-Serrano,Arturo Fregoso-Infante,Mono Mohan Singh,2010-05-27 Environmental issues are growing in importance to the most important political social legal and economic decisions The book presents chemical analyses of our most pressing waste pollution and resource problems for the undergraduate or graduate student The distinctive holistic approach provides both a solid ground in theory as well as a laboratory manual detailing introductory and advanced experimental applications The laboratory procedures are presented at microscale conditions for minimum waste and maximum economy This work fulfills an urgent need for an introductory text in environmental chemistry combining theory and practice and is a valuable tool for preparing the next generation of environmental scientists Conservation of Modern Oil Paintings Klaas Jan van den Berg,Ilaria Bonaduce,Aviva Burnstock,Bronwyn Ormsby,Mikkel Scharff,Leslie Carlyle,Gunnar Heydenreich,Katrien Keune,2020-02-17 Artists oil paints have become increasingly complex and diverse in the 20th Century applied by artists in a variety of ways This has led to a number of issues that pose increasing difficulties to conservators and collection keepers A deeper knowledge of the artists intent as well as processes associated with material changes in paintings is important to

conservation which is almost always a compromise between material preservation and aesthetics This volume represents 46 peer reviewed papers presented at the Conference of Modern Oil Paints held in Amsterdam in 2018 The book contains a compilation of articles on oil paints and paintings in the 20th Century partly presenting the outcome of the European JPI project Cleaning of Modern Oil Paints It is also a follow up on Issues in Contemporary Oil Paint Springer 2014 The chapters cover a range of themes and topics such as patents and paint manufacturing in the 20th Century characterization of modern contemporary oil paints and paint surfaces artists materials and techniques the artists voice and influence on perception of curators conservators and scientists model studies on paint degradation and long term stability approaches to conservation of oil paintings practical surface treatment and display The book will help conservators and curators recognise problems and interpret visual changes on paintings which in turn give a more solid basis for decisions on the treatment of these paintings

Thermodynamic Data Surendra K. Saxena, 2012-12-06 With the rapid development of fast processors the power of a mini super computer now exists in a lap top box Quite sophisticated techniques are becoming accessible to geoscientists thus making disciplinary boundaries fade Chemists and physicists are no longer shying away from computational mineralogical and material science problems too complicated to handle Geoscientists are willing to delve into quantitative physico chemical methods and open those black boxes they had shunned for several decades but with which they had learned to live I am proud to present yet another volume in this series which is designed to break the disciplinary boundaries and bring the geoscientists closer to their chemist and physicist colleagues in achieving a common goal This volume is the result of an international collaboration among many physical geochemists chemists physicists and geologists aiming to understand the nature of material The book has one common theme namely how to determine quantitatively through theory the physico chemical parameters of the state of a solid or fluid

Modern Physical Organic Chemistry Eric V. Anslyn, Dennis A. Dougherty, 2006 Making explicit the connections between physical organic chemistry and critical fields such as organometallic chemistry materials chemistry bioorganic chemistry and biochemistry this book escorts the reader into an area that has been thoroughly updated in recent times

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