

14: Chemical Bonding Theories

Key Chemistry Terms

- Ionic Bond:** Bond formed from electrostatic attraction between ions (charged atoms)—formed from metals with nonmetals.
- Covalent Bond:** A bond formed between two nonmetals that involves shared electrons.
- Polar covalent bond:** Bond formed between two nonmetals—uneven sharing of electrons.
- Metallic bond:** Formed between metal atoms—electrons are pooled between the network of atoms.
- Polar bond:** Bond between two atoms with a great difference in electronegativities—uneven sharing of electrons resulting in a slightly positive region and a slightly negative region of the bond.
- Electronegativity:** An atom's "pull" on electrons shared with another atom.
- Polar molecules:** Molecule where the polar bonds do not cancel each other out in 3D orientation.
- Isomers:** Molecules with the same chemical formula, but different bonding structure.
- Resonance:** Two compounds with multiple bonds in different locations.
- Valence Bond Theory:** Overlap of atomic orbitals form bond.
- Sigma (σ) bonds:** First bond between two atoms, formed from head on overlap of orbitals.
- Pi (π) bonds:** 2nd or 3rd bond between two atoms formed from overlap of parallel p orbitals.
- Hybridization:** Atomic orbitals hybridize into orbitals of the same energy for all sigma bonds of the atom.

Characteristics of bond types

Bond type	Happens between	Electrons are
Ionic	Metal & non-metal	Transferred
Covalent	Non-metals	Shared
Polar Covalent	Non-metals	Shared unevenly
Metallic	Metals	pooled

Common characteristics:

- Ionic:** High melting points, most dissolve in water, conduct electricity when dissolved in water, brittle.
- Covalent:** Low melting points, most do not dissolve in water, do not conduct electricity when dissolved in water.
- Polar covalent:** Medium melting points, some dissolve in water, do not conduct electricity when dissolved in water.
- Metallic:** Soft, conduct heat and electricity, do not dissolve in water.

Bond Polarity

When nonmetals bond covalently with a large difference in electronegativity.

- Absolute value of differences:
 - 0 - 0.4 = covalent
 - 0.5 - 1.4 = polar covalent
 - 1.5 - 4 = ionic

Symbolized with an arrow pointing towards the more electronegative element and a crossed tail by the less electronegative element.

Example:
 $\text{C} \rightarrow \text{N}$ Electronegativity difference of 0.5 = polar bond
 \longleftrightarrow

Isomers and Resonance

Isomer examples:



Resonance examples:



Sigma and Pi bonds

How many sigma and pi bonds are in the following?



6 sigma bonds & 3 pi bonds

Hybridization

# of sigma bonds	Hybridization	Formed from
2	sp	1 s and 1 p
3	sp^2	1 s and 3 p
4	sp^3	1 s and 3 p

How to Use This Cheat Sheet: These are the keys related this topic. Try to read through it carefully twice then rewrite it out on a blank sheet of paper. Review it again before the exams.

Chemistry The Physical Setting 2014 Answer Key

S Marginson



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Membrane Proteins in Aqueous Solutions Jean-Luc Popot, 2018-06-08 This book is the first to be entirely devoted to the challenging art of handling membrane proteins out of their natural environment a key process in biological and pharmaceutical research but one plagued with difficulties and pitfalls Written by one of the foremost experts in the field Membrane Proteins in Aqueous Solutions is accessible to any member of a membrane biology laboratory After presenting the structure functions dynamics synthesis natural environment and lipid interactions of membrane proteins the author discusses the principles of extracting them with detergents the mechanisms of detergent induced destabilization countermeasures and recent progress in developing detergents with weaker denaturing properties Non conventional alternatives to detergents including bicelles nanodiscs amphipathic peptides fluorinated surfactants and amphipols are described and their relative advantages and drawbacks are compared The synthesis and solution properties of the various types of amphipols are presented as well as the formation and properties of membrane protein amphipol complexes and the transfer of amphipol trapped proteins to detergents nanodiscs lipidic mesophases or living cells The final chapters of the book deal with applications membrane protein in vitro folding and cell free expression solution studies NMR crystallography electron microscopy mass spectrometry amphipol mediated immobilization of membrane proteins and biomedical applications Important features of the book include introductory sections describing foundations as well as the state of the art for each of the biophysical techniques discussed and topical tables which organize a widely dispersed literature Boxes and annexes throughout the book explain technical aspects and twelve detailed experimental protocols ranging from in vitro folding of membrane proteins to single particle electron cryomicroscopy have been contributed by and commented on by experienced users Membrane Proteins in Aqueous Solutions offers a concise accessible introduction to membrane protein biochemistry and biophysics as well as comprehensive coverage of the properties and uses of conventional and non conventional surfactants It will be useful both in basic and applied research laboratories and as a teaching aid for students instructors researchers and professionals within the field

Ecological Solutions to Agricultural Land Degradation Subhash Babu, Anup Das, Sanjay Singh Rathore, Raghavendra Singh, Rajbir Singh, 2025-05-20 This book provides an overview of the current status of land degradation globally and the different approaches used for its restoration In addition to the technical aspects it also delves into the social and economic implications of land restoration such as in terms of policy planning Land degradation is a serious threat to agriculture affecting soil function and productivity There are up to 6 billion hectares of degraded soil worldwide It is estimated that 30% of forests 20% of agricultural land and 10% of rangelands are severely affected by land degradation The main causes of land degradation are soil erosion acidification compaction and salinization intensive agriculture overgrazing poor management of arable land and deforestation The consequences of such degradation include sand dune expansion and displacement reduced rainfall rangeland depletion wind and rain erosion and loss of

biomass and biological integrity In 2015 the global goal of achieving land degradation neutrality LDN was included in the 2030 Agenda for Sustainable Development as sustainable development goal 15 3 Developing productive soil ecosystems by restoring degraded soils is therefore a future perspective for food security and environmental sustainability This can be achieved through crop rotation agroforestry conservation agriculture cover crops terrace farming ditching geo jute and contour farming and zero tillage Ecological restoration of farmlands offers an opportunity to reconcile agricultural production with improving ecosystem services Restoring degraded land through environmentally friendly agroecological approaches has the potential to improve agricultural production and provide healthy ecosystems for organisms This book is an important resource for students academics researchers national and international agricultural scientists and soil experts

Technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center, 2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it is always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry Technical questions and answers for job interview Offshore Drilling Platforms PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the drilling of an oil gas wells that will help you to be prepared for job interview at oil gas companies From start to finish you will see a general prognosis of the drilling process If you are new to the oil gas industry you will enjoy having a leg up with the knowledge of these processes If you are a seasoned oil gas person you will enjoy reading what you may or may not know in these pages This course provides a non technical overview of the phases operations and terminology used on offshore drilling platforms It is intended also for non drilling personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations **Global Environment Outlook - GEO-6: Healthy Planet, Healthy People** UN Environment, 2019-06-06 Published to coincide with the Fourth United Nations Environmental Assembly UN Environment's sixth Global Environment Outlook calls on decision makers to take bold and urgent action to address pressing environmental issues in order to protect the planet and human health By bringing together hundreds of scientists peer reviewers and collaborating institutions and partners the GEO reports build on sound scientific knowledge to provide governments local

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Frontiers of Science and Technology Olfa Kanoun, Christian Viehweger, 2021-07-19 Selected extended papers from the Brazilian German Conference on Frontiers of Science and Technology Symposium BRAGFOS Potsdam 5 10 October 2017 In October 2017 the 8th Brazilian German Frontiers of Science and Technology Symposium BRAGFOS was held in Potsdam Germany gathering German and Brazilian researchers in the fields of Hybrid climate control strategies Multifunctional integration Light weight structures Energy Harvesting and Urban agriculture This series of symposia initiated in 2010 is the result of the collaboration between the Alexander von Humboldt Foundation AvH and the Brazilian

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Experiment	$[\text{CH}_3\text{COBr}]_0$ (mol/l)	$[\text{OH}^-]_0$ (mol/l)	Initial Rate (mol/l s)
1	0.10	0.10	0.025
2	0.20	0.10	0.050
3	0.10	0.20	0.050
4	0.20	0.20	0.100

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