

Unit 5 Review: Bonding and Metals

Determine which type of bond would occur between the atoms: ionic or covalent.

Atom 1	Atom 2	Type of Bond
Aluminum	Phosphorus	ionic
Sulfur	Oxygen	covalent
Lithium	Nitrogen	ionic
Carbon	Sulfur	covalent

Write the formulas for the following compounds and then determine if the bonds are ionic or covalent. Draw the dot diagram for the compound. If it is covalent, indicate its shape.

Magnesium Oxide
 Type: ionic
 Chemical Formula: MgO
 Dot Diagram:
 $Mg \cdot \cdot \cdot O \cdot \cdot \cdot \rightarrow [Mg]^{2+} [O]^{2-}$
 Shape (if covalent):

Carbon Tetrafluoride
 Type: covalent
 Chemical Formula: CF_4
 Dot Diagram:
 $C \cdot \cdot \cdot F \cdot \cdot \cdot F \cdot \cdot \cdot F \cdot \cdot \cdot F \cdot \cdot \cdot$
 Shape (if covalent): tetrahedral

Methane
 Type: covalent
 Chemical Formula: CH_4
 Dot Diagram:
 $C \cdot \cdot \cdot H \cdot \cdot \cdot H \cdot \cdot \cdot H \cdot \cdot \cdot H \cdot \cdot \cdot$
 Shape (if covalent): tetrahedral

Carbon Monoxide
 Type: covalent
 Chemical Formula: CO
 Dot Diagram:
 $C \cdot \cdot \cdot O \cdot \cdot \cdot$
 Shape (if covalent): linear

Barium Bromide
 Type: ionic
 Chemical Formula: $BaBr_2$
 Dot Diagram:
 $Ba \cdot \cdot \cdot Br \cdot \cdot \cdot Br \cdot \cdot \cdot \rightarrow [Ba]^{2+} [Br]^{1-} [Br]^{1-}$
 Shape (if covalent):

Sodium Oxide
 Type: ionic
 Chemical Formula: Na_2O
 Dot Diagram:
 $Na \cdot \cdot \cdot O \cdot \cdot \cdot Na \cdot \cdot \cdot \rightarrow [Na]^{+} [O]^{2-} [Na]^{+}$
 Shape (if covalent):

Bromic Acid
 Type: covalent
 Chemical Formula: $HBrO_3$
 Dot Diagram:
 $H \cdot \cdot \cdot Br \cdot \cdot \cdot O \cdot \cdot \cdot O \cdot \cdot \cdot O \cdot \cdot \cdot$
 Shape (if covalent): pyramidal

Nitrate Ion
 Type: covalent
 Chemical Formula: NO_3^{-}
 Dot Diagram:
 $N \cdot \cdot \cdot O \cdot \cdot \cdot O \cdot \cdot \cdot$
 Shape (if covalent): trigonal planar

Aluminum Sulfide
 Type: ionic
 Chemical Formula: Al_2S_3
 Dot Diagram:
 $Al \cdot \cdot \cdot S \cdot \cdot \cdot S \cdot \cdot \cdot S \cdot \cdot \cdot S \cdot \cdot \cdot S \cdot \cdot \cdot$
 Shape (if covalent):

Sulfuric Acid
 Type: covalent
 Chemical Formula: H_2SO_4
 Dot Diagram:
 $H \cdot \cdot \cdot S \cdot \cdot \cdot O \cdot \cdot \cdot O \cdot \cdot \cdot O \cdot \cdot \cdot O \cdot \cdot \cdot$
 Shape (if covalent): bent

Use the elements in the following list to answer the questions below: Aluminum, Calcium, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Silver, Sodium, Tin, Titanium, Zinc

- Give one of the metals from the above list that is in its ionic form in our good for the body.
Mercury
- Give one of the metals from the list above that can be found free in nature.
Silver, Mercury, Copper, Iron
- Give one of the metals from the list above that cannot be found free in nature.
Sodium, Potassium, Magnesium, Calcium, Aluminum, Lead, Nickel, Tin, Titanium, Zinc
- Name one of the strongest transition metals from the list above.
Titanium, Nickel, Aluminum
- Give one metal from the list above which is found in nature as a chloride.
Sodium, Potassium, Magnesium, Calcium
- Which metal from the list above gets its name from the Latin word maximum?
Tin
- Which metal from the list above gets its name from the Latin word hydrargyrum?
Mercury

Answer the following questions using one of the transition metals that we discussed: Aluminum, Copper, Iron, Lead, Mercury, Nickel, Silver, Tin, Titanium, Zinc

Property	Transition Metal or Metals
Good Conductors (2)	$Ag, Cu, Al, Fe, or Hg$
High Density (1)	$Hg, Pb, or Ag$
Low Density (1)	$Al or Ti$
Soft (2)	$Sn, Pb, or Hg$
Magnetic (1)	$Fe or Ni$
Good Luster (2)	$Ag, Al, Ni, or Hg$

Uses in Pure Form	Transition Metal
Fuel for Space Shuttle	Al
Car Batteries	Pb
Extreme Cold Iron Masks	Hg
Bike Frames	Ti
Wiring	Cu
Inside of Printer	Zn

Group 1 and Group 2 elements have many similarities and differences. In the table below, give a few words about each of the concepts listed.

Property or Idea	Group 1 Elements	Group 2 Elements
Reactivity with water	vigorous	mild
Density	low density	more dense than Group 1
Occurrence in Nature	never	never
Hardness	soft	harder than Group 1

Match the location with the metal that we need to get from this area.

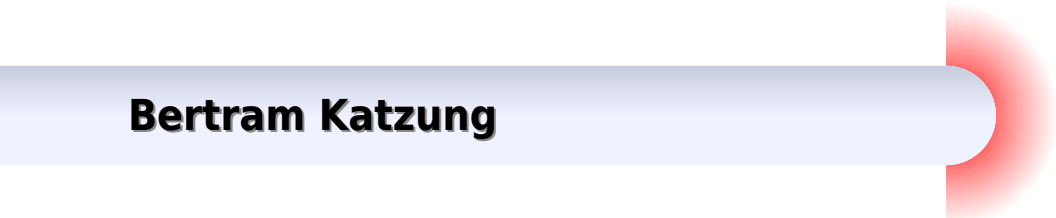
Location	Metal or Metals
Bismuthville Plant, Utah	Ni
Exton, England	Mg
Dead Sea, Palestine	$Na (K, Mg, Ca)$
Morog, Peru	Ni
Salt Lake City, Utah	$Na (K, Mg, Ca)$

Fill in the chart below about the four types of bonds we learned about. Depends on electronegativity

Bond Type	Particles	Picture	Force	Melting Point	Conductivity	Other Notes	Examples
Molecular (Covalent)	nonpolar	$H-H$	weak	low	no	usually gases	carbon dioxide
Ionic	metal ion nonpolar	$Na^+ Cl^-$	strong	very high	no (if ionic)	usually solids	sodium chloride
Network Covalent	nonpolar pattern	$C-C-C$	strong	very high	no	highly hardest	diamond
Metallic	metal all	$Na^+ e^-$	strong	varies	yes	ductile malleable	copper

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Bertram Katzung



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Prentice Hall Science Explorer Michael J. Padilla, 2002 **Structure & Function of the Body - E-Book** Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, 2024-06-25

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Materials for Sustainable Energy Vincent Dusastre, 2011 The search for cleaner cheaper smaller and more efficient energy technologies has to a large extent been motivated by the development of new materials The aim of this collection of articles is therefore to focus on what materials based solutions can offer and show how the rationale design and improvement of their physical and chemical properties can

lead to energy production alternatives that have the potential to compete with existing technologies In terms of alternative means to generate electricity that utilize renewable energy sources the most dramatic breakthroughs for both mobile i e transportation and stationary applications are taking place in the fields of solar and fuel cells And from an energy storage perspective exciting developments can be seen emerging from the fields of rechargeable batteries and hydrogen storage

The Human Body in Health & Disease - Softcover6 Kevin T. Patton,Gary A. Thibodeau,2013-01-01 Rev ed of The human body in health disease Gary A Thibodeau Kevin T Patton 5th ed c2010 **Zwitterionic hydrogels and their biomedical applications: a review** Chengcheng Li,Hao Zheng,Xingguo Zhang,Zhihua Pu,Dachao Li,2024-03-04 The coexistence of anions and cations in zwitterionic hydrogels results in electrostatic interactions between the polymer chains This structure endows zwitterionic hydrogels with higher ion sensitivity and promising properties such as anti polyelectrolyte and thermosensitive effects Hydrophilic groups on the molecular backbone give zwitterionic hydrogels good biocompatibility and they effectively resist the non specific adsorption of proteins The abundant functional groups on the molecular skeleton also facilitate the chemical modification of zwitterionic hydrogels In recent years these excellent properties have made zwitterionic hydrogels broadly interesting and they have been heavily studied for medical applications A comprehensive review will help researchers have a deeper understanding of zwitterionic hydrogels and their potential applications In this review the types functional characteristics and applications in the biomedicine of zwitterionic hydrogels are summarized in detail In addition the challenges and opportunities for using zwitterionic hydrogels for biomedical applications are discussed

Chemical Interactions ,2005 **Ion Exchange Processes for Water and Environment Management** Amita Somya,Anish Khan,2025-07-15 This book presents theory principles and applications of ion exchangers for water and environment management It begins with an introduction ion exchange equilibrium kinetics of ion exchange process and fundamental properties of ion exchangers which make them appropriate in various applications The theories underlying the operation of ion exchange resins are explained as well as the production of resin products with groups adapted to specific ions or groups of ions including principles of ion exchange process different synthetic procedures of ion exchangers and characterization techniques and the role of ion exchangers with their specific characteristics This book is an invaluable tool to analytical chemists and researchers who are interested in the applications of ion exchange materials **In Situ Molecular Pathology and Co-expression Analyses** Gerard J. Nuovo,2020-09-03 Major advancements in the field of in situ molecular pathology have occurred since publication of the first edition In Situ Molecular Pathology and Co expression Analyses Second Edition continues to teach both the molecular basis for the improvements and the actual protocols This is the unique feature that separates it from the pack of other cook book type approaches The fields of in situ hybridization and immunohistochemistry have expanded rapidly where computer based analyses systems have greatly expanded the power of these methods Further knowledge of the marked improvements in the reagents themselves since the first edition can make

the difference of excellent versus misleading data The automated platforms require that researchers and diagnostic biomedical investigators have a good understanding of the basics of in situ based tests protocols and biochemistry for troubleshooting in order to maximize the use of these platforms This second edition focuses attention on straightforward protocols used to simultaneously detect two or more proteins nucleic acids within intact tissue by doing co expression analyses Practicing molecular pathologists diagnostic pathologists laboratory directors and toxicologists as well as clinicians and researchers in training will benefit from this clear presentation of protocols and theoretical framework Data derived from in situ hybridization and immunohistochemistry Explains the theory and foundation of immunohistochemistry and in situ hybridization and presents easy to follow experimental protocols with tricks of the trade Includes two new chapters Recent improvements in immunohistochemistry and in situ hybridization Quality control for immunohistochemistry and in situ hybridization How to know if the color change is signal or background The second edition also includes a detailed test to help one learn the basics of histologic interpretation of tissues and a separate detailed test in how to differentiate signal from background Includes chapter ending summaries of Key Points to Remember bringing beginners up to speed with any seasoned veteran in the field Thoughtfully tackles the molecular basis of IHC and ISH along with application of that knowledge to improving the techniques is significant

Visualizing Everyday Chemistry Douglas P. Heller, Carl H. Snyder, 2015-01-20 Visualizing Everyday Chemistry Binder Ready Version is for a one semester course dedicated to introducing chemistry to non science students It shows what chemistry is and what it does by integrating words with powerful and compelling visuals and learning aids With this approach students not only learn the basic principles of chemistry but see how chemistry impacts their lives and society The goal of Visualizing Everyday Chemistry Binder Ready Version is to show students that chemistry is important and relevant not because we say it is but because they see it is This text is an unbound binder ready version

The Science Teacher, 1996 Some issues are accompanied by a CD ROM on a selected topic

Metrology and Physical Mechanisms in New Generation Ionic Devices Umberto Celano, 2016-06-18 This thesis presents the first direct observations of the 3D shape size and electrical properties of nanoscale filaments made possible by a new Scanning Probe Microscopy based tomography technique referred to as scalpel SPM Using this innovative technology and nm scale observations the author achieves essential insights into the filament formation mechanisms improves the understanding required for device optimization and experimentally observes phenomena that had previously been only theoretically proposed

Biology Gerhart Campbell, 2000-09

Multidisciplinary Research in Arts, Science & Commerce (Volume-13) Chief Editor- Biplab Auddya, Editor- Prof. Prabhjot Kaur, Dr. Mandeep Kaur, Dr. Reghunath K, Dr. Yalla Poli Naidu, Dr. Jayanti Jatav, Prof. Abhilash T P, 2024-12-05

The Software Encyclopedia 2000 Bowker Editorial Staff, 2000-05

Anatomy and Physiology for Health Professionals Jahangir Moini, 2015-01-21 Preceded by Anatomy and physiology for health professionals Jahangir Moini c2012

Basic & Clinical Pharmacology, Thirteenth Edition,

SMARTBOOK™ Bertram G. Katzung, Anthony J. Trevor, 2014-12-22 Gain a full understanding of the basic science and clinical use of drugs with the most up to date and comprehensive pharmacology text in the health sciences A Doody's Core Title for 2017 400 ILLUSTRATIONS MANY IN FULL COLOR Organized to reflect the course sequence in many pharmacology courses and in integrated curricula Basic Clinical Pharmacology covers the important concepts students need to know about the science of pharmacology and its application to clinical practice Selection of the subject matter and order of its presentation are based on the authors many years of experience in teaching this material to thousands of medical pharmacy dental podiatry nursing and other health science students Coverage that spans every aspect of medical pharmacology Encompasses every aspect of medical pharmacology including botanicals and over the counter drugs New chapter on pharmacogenomics with important examples Emphasis is placed on discussion of drug groups and prototypes Clinically relevant the book includes sections that specifically address the clinical choice and use of drugs in patients and the monitoring of their effects Full color presentation with more than 400 illustrations Case studies introduce clinical problems in most chapters Summary tables and diagrams encapsulate important information Includes many new drugs A Generic Name Trade Name Table appears at the end of most chapters for easy reference when writing a chart order or prescription

Basic and Clinical Pharmacology 12/E Inkling (ENHANCED EBOOK) Bertram G. Katzung, Susan B. Masters, Anthony J. Trevor, 2012-03-22 The most up to date comprehensive and authoritative pharmacology text in health medicine Enhanced by more than three hundred illustrations many in full color Organized to reflect the syllabi in many pharmacology courses and in integrated curricula Basic Clinical Pharmacology 12e covers the important concepts students need to know about the science of pharmacology and its application to clinical practice Selection of the subject matter and order of its presentation are based on the authors many years experience in teaching this material to thousands of medical pharmacy dental podiatry nursing and other health science students To be as clinically relevant as possible the book includes sections that specifically address the clinical choice and use of drugs in patients and the monitoring of their effects and case studies that introduce clinical problems in many chapters Presented in full color and enhanced by more than three hundred illustrations Basic Clinical Pharmacology features numerous summary tables and diagrams that encapsulate important information Coverage that spans every aspect of medical pharmacology Basic principles Autonomic drugs Cardiovascular renal drugs Drugs with important actions on smooth muscles Central nervous system drugs Drugs used to treat anemias clotting disorders hyperlipidemia and inflammation and gout Endocrine drugs Chemotherapeutic and immunologic drugs Toxicology Special subjects perinatal geriatric and dermatologic pharmacology Botanical and food supplements and over the counter medications Prescribing Also in this edition Drug Summary Tables conclude most chapters providing a concise summary of the most important drugs General concepts relating to newly discovered receptors receptor mechanisms and drug transporters Descriptions of important new drugs including monoclonal antibodies *Papers Presented at the ...*

Meeting American Chemical Society. Division of Polymer Chemistry,1990 **Basic & Clinical Pharmacology** Bertram Katzung,2004-01-05 The most current authoritative and comprehensive pharmacology book for medical pharmacy and other health science students Widely respected for its clarity comprehensiveness and organization this pharmacology course book presents the essential concepts that students need to know about the science of pharmacology and their application Focuses on the basic principles of each drug group as well as the clinical choice and use of drugs in patients and the monitoring of their effects **Basic and Clinical Pharmacology 15e** Bertram G. Katzung,Anthony J. Trevor,2020-11-22 Master key pharmacological concepts and practices with the most comprehensive authoritative guide available Doody's Core Titles for 2023 Presented in full color and packed with hundreds of illustrations Basic and Clinical Pharmacology is the wide ranging engaging guide students have counted on for decades Organized to reflect the course sequence in many pharmacology courses and in integrated curricula the guide covers the important concepts students need to know about the science of pharmacology and its application to clinical practice This edition has been extensively updated to provide expanded coverage of transporters pharmacogenomics and new drugs Delivers the knowledge and insight needed to excel in every facet of pharmacology Encompasses all aspects of medical pharmacology including botanicals and over the counter drugs Major revisions of the chapters on immunopharmacology antiseizure antipsychotic antidepressant antidiabetic anti inflammatory and antiviral drugs prostaglandins and central nervous system neurotransmitters New chapter on the increasingly relevant topic of cannabis pharmacology Each chapter opens with a case study covers drug groups and prototypes and closes with summary tables and diagrams that encapsulate important information Revised full color illustrations provide more information about drug mechanisms and effects and help clarify important concepts Trade Name Generic Name tables are provided at end of each chapter for easy reference when writing a chart order or prescription Includes descriptions of important new drugs released through May 2019 New and updated coverage of general concepts relating to recently discovered receptors receptor mechanisms and drug transporters

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